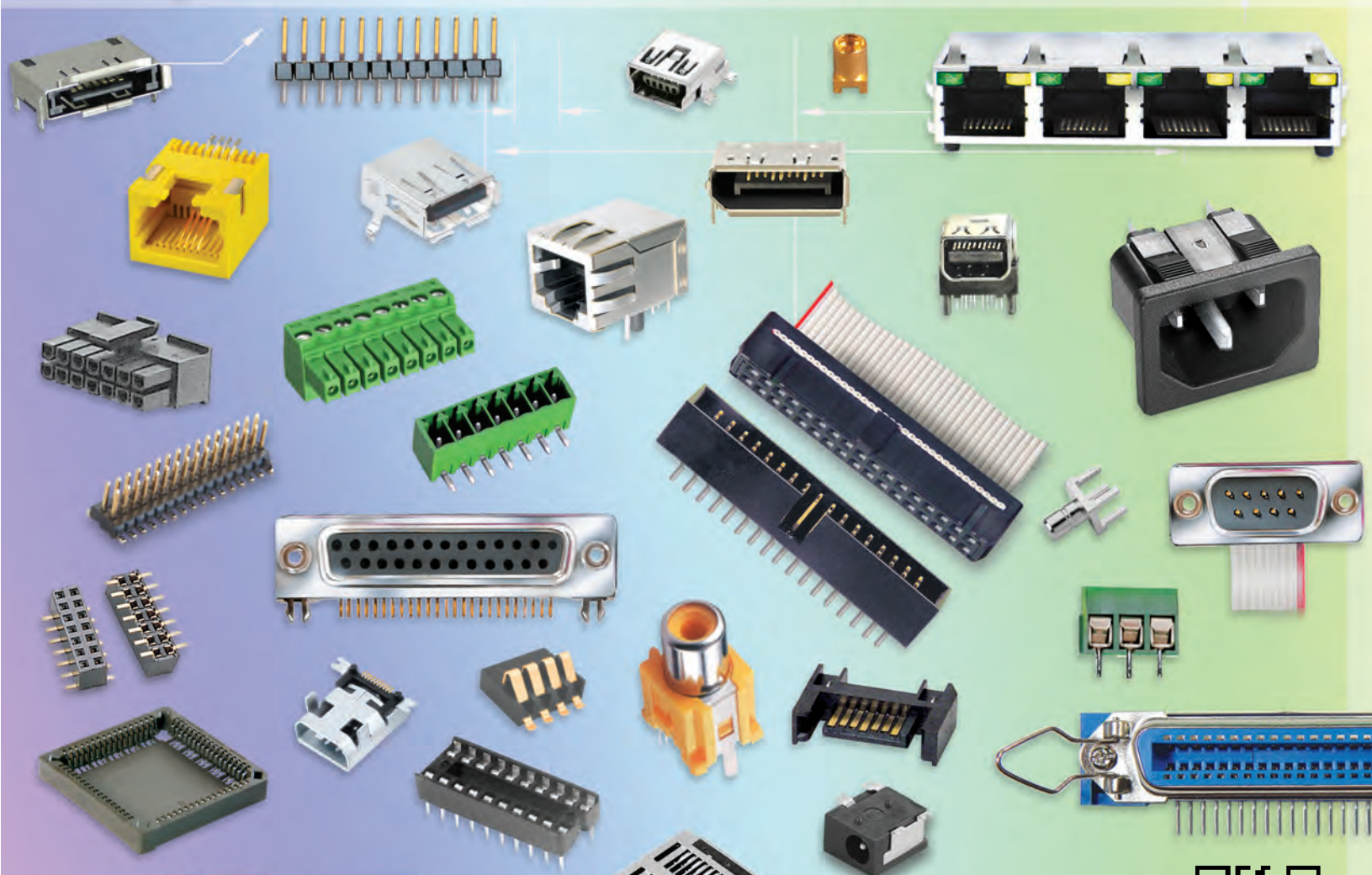


ADAM TECH®

ADVANCED INTERCONNECT
PRODUCTS AND SYSTEMS



GREEN PRODUCT

- RoHS2 Compliant, Lead Free
- REACH Compliant
- Deca BDE Compliant
- Halogen Free



info@adam-tech.com
www.adam-tech.com



INTRODUCTION AND PROMISE

Adam Tech is pleased to present our full line of interconnect products and welcomes the chance to be your valued supplier. It is our continuing goal to offer a wide range of world class connectors and cable assemblies with one simple promise: We will provide you with the Highest Quality Product with the Best Service Available at the Lowest Possible Price.

CAPABILITIES

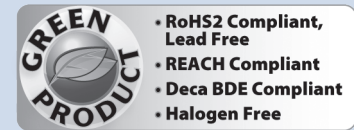
Adam Tech prides itself on the scope of our product offering which features innovative connector designs and manufacturing capabilities that reduce cost and improves performance in a broad range of applications. Our exclusive automated manufacturing processes provide consistent high quality product with low cost and short lead times. Adam Tech welcomes the opportunity to offer our experience to provide custom solutions to your application specific product requirements. We can develop concepts into designs, tooling and production.

SALES, SERVICE & AVAILABILITY

Adam Tech has professionally staffed sales and engineering teams at our facilities in the USA, Taiwan, China & India. From these locations and forty representative offices throughout the Americas, Europe & Asia we provide worldwide service to our customers and their contract manufacturers. Adam Tech products are also available internationally through our network of experienced distributors who offer local stock and value added services. Please check our website for a complete listing of our representative offices and distributors.

ENVIRONMENTAL

Adam Tech acknowledges the need to eliminate hazardous materials which impact our environment and affect human health. We have taken strict measures to produce products that are lead-free and free from other hazardous materials. Adam Tech's products are all fully compliant to RoHS2 Directive 2011/65/EU with no exemptions, China RoHS, REACH, Deca BDE and Halogen Free.



Adam Tech • USA

909 Rahway Ave | Union, NJ 07083 | USA
Tel: 908.687.5000 | Fax: 908.687.5710
Email: info@adam-tech.com
www.adam-tech.com

Adam Tech • TAIWAN

5F-17, No.14, Lane 609, Sec. 5, Chongsin Rd.
New Taipei City | Taipei County 241 | Taiwan (R.O.C.)
Tel: 886-2 2999 8028 | Fax: 886-2 2999 8062
Email: sales@adam-tech.com
www.adam-tech.com.tw

Adam Tech • CHINA

Songgang Town Industrial Park | Shenzhen City
Guangdong Province | China
Tel. 886-2 2999 8028 | Fax. 886-2 2999 8062
Email: factory@adam-tech.com
www.adam-tech.com.cn

Adam Tech • EUROPE

Somerset | UK
Email: europe@adam-tech.com
www.adam-tech.com

Adam Tech • INDIA

New Delhi | India
Email: india@adam-tech.com
www.adam-tech.com

Adam Tech • BRAZIL

São Paulo | Brazil
Email: brazil@adam-tech.com
www.adam-tech.com

All text, photos and illustrations within this catalog are property of Adam Tech and may not be reproduced in any form without express written permission.

© 2014 Adam Tech. All rights reserved.

Adam Tech has taken reasonable efforts to insure that all drawings, illustrations, specifications, statements and safety agency approvals contained herein are accurate as of the date of publication. However, Adam Tech does not guarantee in any way the accuracy or specificity of any information contained herein. Adam Tech expressly disclaims all implied warranties regarding this information, including but not limited to any implied warranties or merchantability or fitness for a particular purpose.

Adam Tech will in no case be liable for your use, or the results of your use of any Adam Tech products based upon written materials provided. IT IS YOUR RESPONSIBILITY TO VERIFY AND CONFIRM THE RESULTS OF YOUR USE OF THIS DATA AND PRODUCT IN YOUR OWN SPECIFIC ENGINEERING APPLICATION AND ENVIRONMENT AND YOU ASSUME ALL RISK OF DOING SO OR FAILING TO DO SO. Samples are free of charge and it is recommended that buyers request samples for evaluation to determine suitability prior to purchasing.

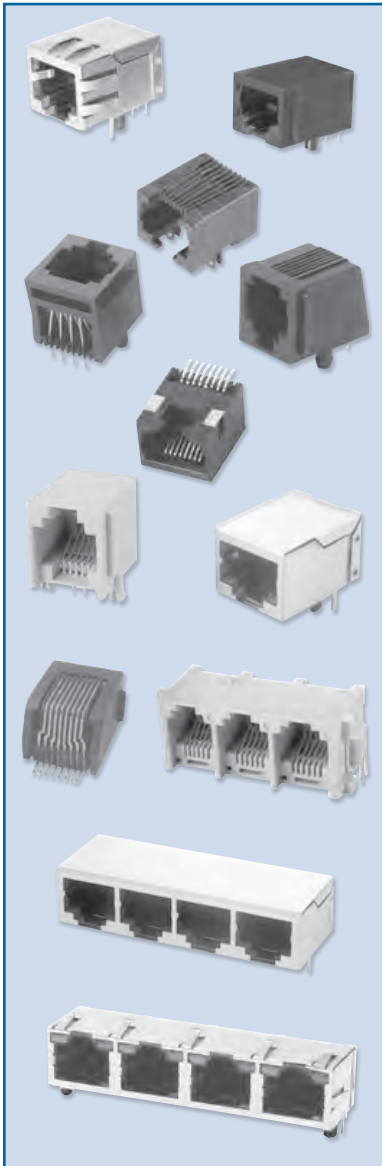
Specifications on any and all parts shown herein may be altered, without notice when deemed necessary, by Adam Tech. No oral or written information or advice given by Adam Tech or its distributors, agents or employees will operate to create any warranty or guarantee or vary any provision or information herein, and you may not rely on any such information or advice. As such, each end user is encouraged to test and evaluate each product for their specific intended use. Adam Tech shall not be deemed liable for any injury resulting from the use or inability to use any product herein even if Adam Tech has been advised of the possibility of such damages. In no event will Adam Tech's liability to you for any cause whatsoever, and regardless of the form of action, exceed \$500.

INDEX

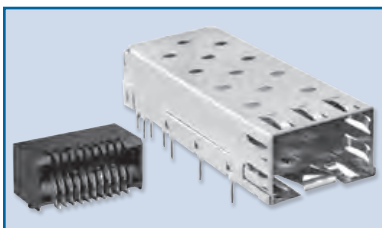
CATEGORY

PAGE

MODULAR JACKS



Ordering Information	9
Side Entry Type 1	10
Side Entry Type 0	11
Internal Shield Low Profile SMT- Type Y	12
Compact & Shielded Jack - 2, 2B & 2C	13
Compact Type Q & Shielded Type 2B	14
Top Entry, Open Body - Type 3	15
Side Entry - Type 5	16
Thru Hole Side Entry - Type 7	17
Side Entry Type 9	18
Top Entry, Enclosed Body - Type F	19
Side Entry - Type G	20
Side Entry, SMT - Type WA & WB	21
Thru Hole & SMT - Type W	22
Top Entry, SMT - Type H	23
Top Entry, SMT - Type K	24
Top Entry, SMT - Type V	25
Side Entry - Type E	26
CAT 5, 5e, Top & Side Entry - Type A & T	27
CAT 5, 5e, Single & Ganged - Type T	28
LED Jacks - Type AA, AR & D	29
LED Jacks, Single & Ganged - Type AR	30
LED Jacks, Single & Ganged - Type G & J	31
Ferrite Filtered and Shielded Jacks - Type M	32
CAT. 3 & 5e Keystone Jacks	33
Ganged & Stacked Jacks Ordering Information	34
Ganged Jacks, Side Entry - Type 2,2B,2C	35
Ganged Jacks, Top & Side Entry - Type 7	36
Ganged Jacks, Low Profile, Thru Hole & SMT Type 5 & N	37
Ganged Jacks, Side Entry - Type G	38
Ganged & Stacked Side Entry Jack - Type J	39
Integrated Magnetics Jacks - Type C, S, T & J	40-45
Wire Ledged Jacks	46-48
Line Cord Coupler	49
Modular Plugs	50-51

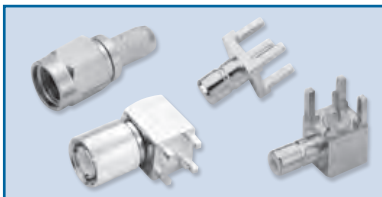


SMALL FORM FACTOR

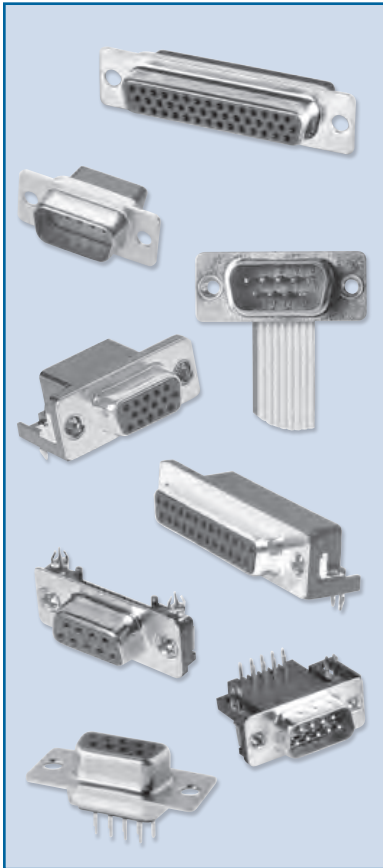
Ordering Information	52
Pluggable Connector & Cage	

RF CONNECTORS

Ordering Information	53
BNC, SMA, SMB, F, N, UHF, TNC, FME, Mini UHF, MCX, MMCX, MHF, W. FL	54-58



INDEX

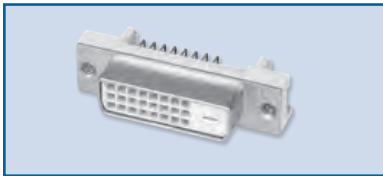


D-SUBMINIATURE CONNECTORS

Right Angle .318" [8.08] Mount	59-60
Right Angle .318" [8.08] Mounting Options	61
Right Angle .590" [15.00] Mount	62-63
Right Angle .590" [15.00] Mounting Options	64
Combination Signal with COAX or Power	65-67
Right Angle .197" [5.00] Slimline	68-69
SMT Right Angle .118" [3.00] Slimline	70-71
Right Angle with Machined Contacts	72-73
IDC Flat Cable Termination	74-75
Solder Cup Termination	76-77
Crimp & Poke System	78-79
Flush Mount Straight PCB Tail	80-81
Straight & Wire Wrap PCB Tail	82-83
High Profile Straight PCB Tail	84
Dual Port, Right Angle	85-86
Dual Port Variations	87

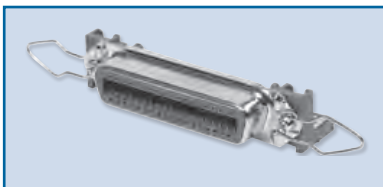
HIGH DENSITY D-SUBMINIATURE CONNECTORS

Solder Cup Termination	88-89
Straight PCB Tail	90-91
Right Angle PCB Mount	92-93
Crimp & Poke System	94-95
Backshells	96
Hardware and Accessories	97
EMI Filter Option	98



DVI CONNECTORS (DIGITAL VIDEO INTERFACE)

Ordering Information	99
Digital Video Interface	100



MINIATURE RIBBON CONNECTORS CENTRONIC

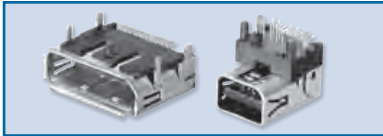
Ordering Information	101
Right Angle PCB Mount	102
IDC Flat Cable Termination	103
Straight PCB Tail	104
Solder Terminals	105



USB, MINI USB, MICRO USB, FIREWIRE & MINI FIREWIRE

Ordering Information	106
USB 3.0 Type A & B	107
USB Type A Single Port Ports	108-109
USB Type A Stacked Ports	110
USB Type B Connector & Plug	111
Mini USB Type A, B4 & B5	112
Mini USB AB, AB3, B & B3	113
IEEE 1394 Firewire & Mini Firewire Thru-Hole & Surface Mount	114

INDEX



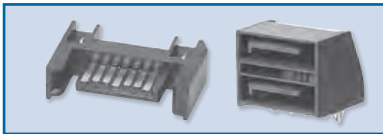
DISPLAY PORT & MINI DISPLAY PORT

Ordering Information	115
Display Port & Mini Display Port	116 -117



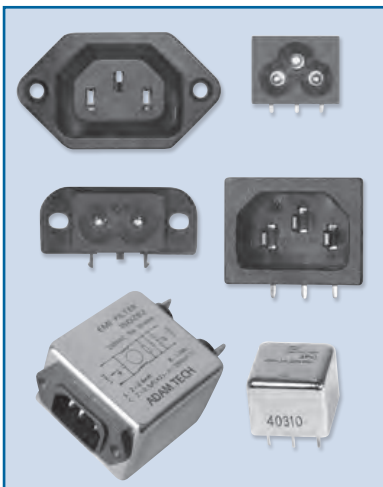
HDMI CONNECTORS

Ordering Information	118
HDMI, High Definition Multi-Media Interface.	119-122



SATA & ESATA CONNECTORS

Ordering Information	123
External Serial ATA.	124
Serial ATA.	125-128

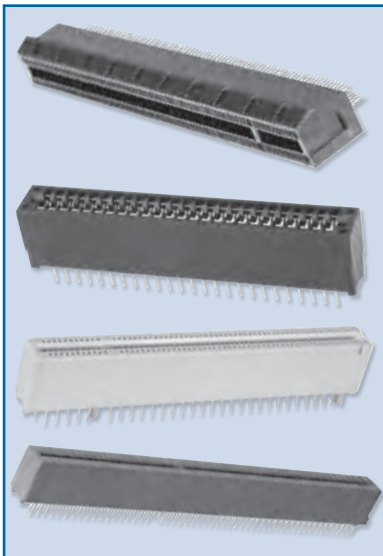


AC INLET/OUTLET IEC-320 & MINI IEC CONNECTORS

Ordering Information	129
IEC-320 Connectors	130-137
NEMA Receptacles	138
Mini IEC Connectors	139-141

EMI/RFI POWER LINE FILTERS

Ordering Information	142
Plastic Case PCB Mount.	143
Small Outline Chassis Mount	144
Metal Case PCB Mount.	145
Screw-In Chassis Mount	146
Medium Outline Chassis Mount	146
Fused Inlet Socket with Flange Mounting.	148
Inlet Socket with Flange Mounting	149
Flanged Module with Fuse & Switch.	150



PCI EXPRESS, MINI PCI EXPRESS & MINI PCI

Ordering Information	151
1.00mm & 0.8mm Card Edge Connector	152-153

CARD EDGE CONNECTORS

Ordering Information	154
.100" x .200" [2.54 X 5.08] Centerline.	155

VESA/EISA, MICRO CHANNEL CONNECTOR

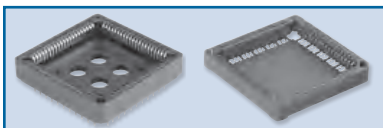
Ordering Information	156
.050" PCI / VESA Micro Channel	157

PLCC SOCKETS - SMT

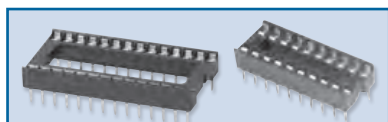
Ordering Information	158
PLCC Sockets Surface Mount	159

PLCC SOCKETS - THRU HOLE

Ordering Information	160
PLCC Sockets Thru-Hole	161-162

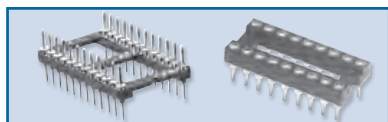


INDEX



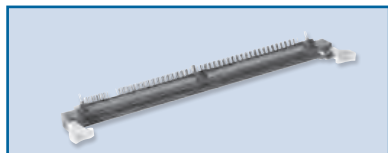
IC SOCKETS

Ordering Information	163
Single & Dual Row .100" [2.54] Centerline	164
.070" [1.78] Shrink DIP & Single Row Socket	165



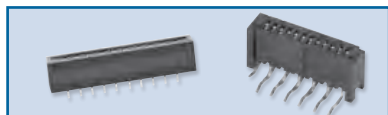
SCREW MACHINE SOCKETS & TERMINAL STRIPS

Ordering Information	166
.100" [2.54] Centerlines Dual Row	167
1.00mm, .050", 2.00mm, .100"	168-169



DIMM, S.O. DIMM & DDR SOCKET

Ordering Information	170
168P Latching Sockets	171
DDR Socket 184P Straight & Angled	172



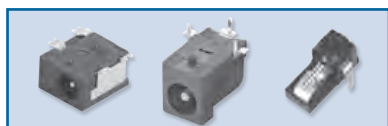
LIF FLEX CIRCUIT CONNECTORS

Ordering Information	173
.039" [1.00] Centerline	174
.049" [1.25] & .100" [2.54] Centerline	175



ZIF FLEX CIRCUIT CONNECTORS

Ordering Information	176
.020" [0.5] Centerline ZIF Sockets for FFC/FPC	177
1.00mm (.039") & 1.25mm (.049") Centerline ZIF Sockets for FFC/FPC . .	178



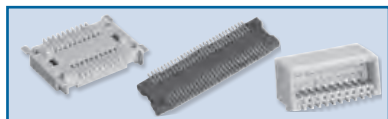
DC POWER JACKS

Ordering Information	179
PC Board & Panel Mount	180-183



2.5mm & 3.5mm AUDIO JACKS

Ordering Information	184
Stereo & Mono Earphone Jacks	185-190



BOARD-TO-BOARD CONNECTORS

Ordering Information	191
0.4mm, 0.5mm, 0.635mm, 0.8mm & 1.00mm	192-193



RCA JACKS

Ordering Information	194
Single, Right Angle Mount	195
Single & Ganged	196
Ganged and Stacked	197-198



CIRCULAR DIN JACKS

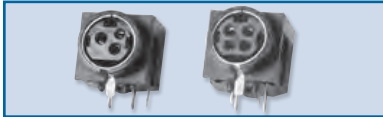
Ordering Information	199
Right Angle PCB Mount	200
Straight PCB & Panel Mount	201



MINI DIN JACKS

Ordering Information	202
Single, Right Angle PCB Mount	203
Stacked Right Angle PCB Mount	204
Top Entry, Low Profile PCB Mount	205

INDEX



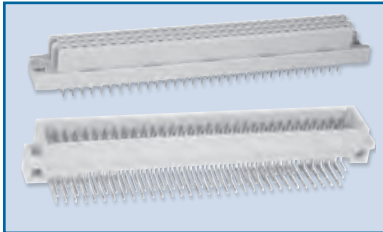
MINI DIN POWER JACKS & PLUGS

Ordering Information	206
Standard & Shielded PCB Mount	207



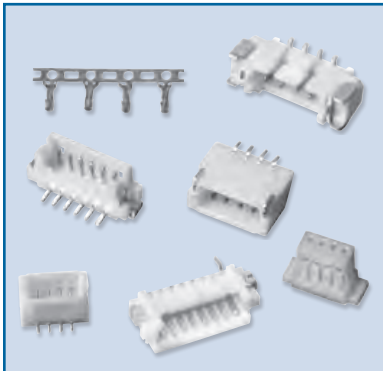
DIN, MINI DIN PLUGS

Ordering Information	208
DP, DS, MDP & MDS SERIES	209



DIN 41612 CONNECTORS

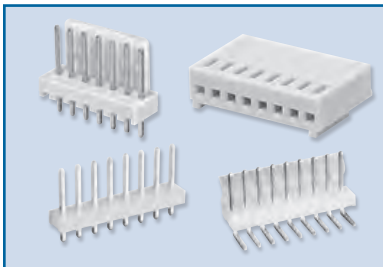
Ordering Information	210
Inverse Type R	211
Standard Type C	212
Inverse Type Q	213
Standard Type B	214
Inverse Type 1/2 R	215
Standard Type 1/2 C	216
4 Row Male & Female	217



HEADER & HOUSING SYSTEMS

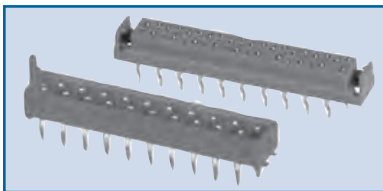
0.8mm, 1.00mm, 1.25mm, 2.00mm & 2.50mm

Ordering Information	218
0.8 & 1.00mm	219
1.25mm Type A, Type B, Type C, Type D & Type G	220-223
1.5mm Type A	224
1.5mm Type B & 2.0mm Type B	225
2.0mm Type C	226
2.0mm Type D & Type F	227
2.0mm Type F & Type H	228
2.0mm & 2.5mm Type J & Type E	229
2.5mm Type B & Type C	230
.100" (2.54) MTE & MTF Series, Single & Dual Row	231



.100" LATCHING HEADER & HOUSING

Ordering Information	232
CDR, CDH, & CDH-C Series	233

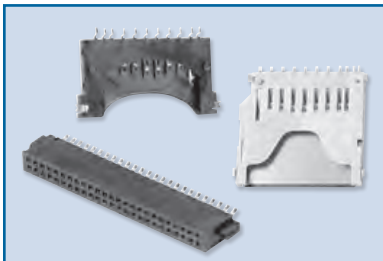


100" HEADER & HOUSING CONNECTOR SYSTEM

Ordering Information	234
LHA, MTA, LHS & MTS Series	235-236

.156" HEADER & HOUSING

Ordering Information	237
.156" [3.96] Centerline LHB, LHC, LHD & MTB Series	238-240



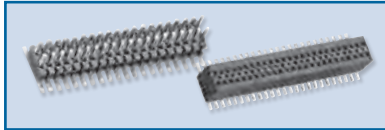
MINI FLEX CONNECTOR

Ordering Information	241
Male & Female PCB Mount & SMT	242-243
Flat Cable IDC	244

MEMORY SOCKETS

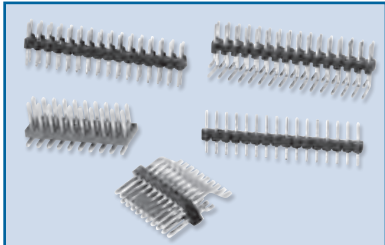
Ordering Information	245
Mini, Micro & Standard Secure Digital Sockets, Compact Flash Sockets	246
Compact Flash Sockets, Memory Sticks & SIM Card Sockets	247

INDEX



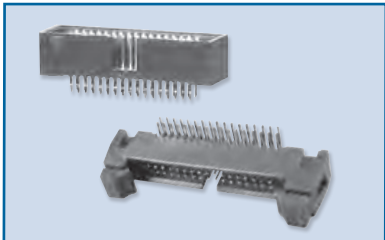
0.8mm SUB MICRO & 1.00mm MICRO HEADERS

Ordering Information	248
Pin Headers 0.8mm & 1.00mm Centerline	249



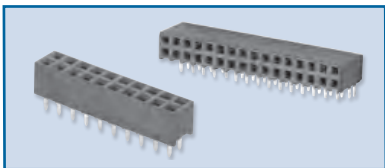
.050" PIN HEADERS

Ordering Information	250
.050" [1.27] Centerline, Single Row	251
.050" [1.27] Dual Row & Dual Insulator Headers	252
Shrouded Mating Set, Thru-Hole & SMT	253



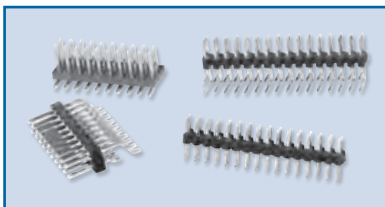
.050" BOX HEADERS

Ordering Information	254
.050" x .050" & .050" x .100" Centerline	255



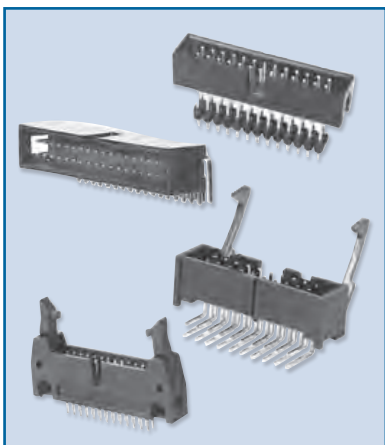
.050" LATCH HEADER

Ordering Information	256
.050" [1.27] X .050" [1.27] Centerline	257
.050" [1.27] x .100" [2.54] Centerline	258-259



.050" RECEPTACLE STRIPS

Ordering Information	260
.079", .085", .181" & .335" Height	261
.134" & .228" HEIGHT .050" [1.27] Centerline	262
.085" & .133" Height .050" [1.27] Centerline	263



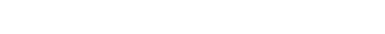
2.00mm PIN HEADERS

Ordering Information	264
.079" [2.00] Centerline Pin Headers	265-266
.079" [2.00] Shunts	267



2.00mm BOX HEADERS

Ordering Information	268
.079" [2.00] Centerline Box Headers	269



2.00mm LATCH HEADER

Ordering Information	270
.079" [2.00] Centerline Latch Headers	271



2.00mm RECEPTACLE STRIPS

Ordering Information	272
.169" & .193" Height .079" [2.00] Centerline	273
.110", .169", & .191" Height .079" [2.00] Centerline	274
.106" & .248" Height .079" [2.00] Centerline	275

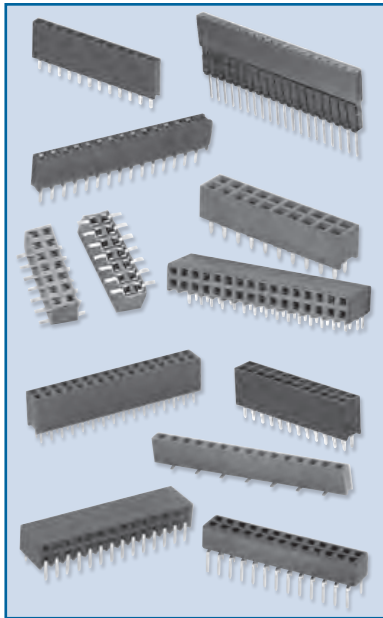
.100" PIN HEADERS

Ordering Information	276
.100" [2.54] Centerline	277-278
.100" [2.54] Surface Mount	279
.100" [2.54] Centerline Dual Insulator	280

MINI SHUNTS

Ordering Information	281
.100" [2.54] Centerline	282

INDEX



.100" BOX HEADERS

Ordering Information	283
.100" X .100" [2.54 X 2.54] Centerline	284
.100" X .100" Centerline [2.54 X 2.54] with Latches	285

.100" ELEVATED BOX HEADERS

Ordering Information	286
.100" X .100" [2.54 X 2.54] Centerline.	287

.100" LATCH HEADER

Ordering Information	288
.100" X .100" [2.54 X 2.54] Centerline.	289

.100" RECEPTACLE STRIPS

Ordering Information	290-291
.138" & .205" Height	292
.335" Height.	293-294
SMT .283" Height	295
.335" Height with Polarizing Bump	296
.224" Height, Low Profile.	297
.260" Height, Four Sided Contact.	298
.197" Height Bottom, Pass Thru & Dual Entry	299
Top, Bottom & Pass Thru Entry.	300
Elevated Sockets .100" [2.54].	301

.100" & .156" RECEPTACLE WITH BOARD HOOKS

Ordering Information	302
.100" Receptacle Strip w/Board Hooks	303
.156" Receptacle Strip w/Board Hooks	304

.050" IDC CONNECTORS

Ordering Information	305
.050" Dual Row Flat Cable Sockets	306
Flat Cable Plugs	307

2.00mm IDC SOCKET AND TRANSITION PLUG

Ordering Information	308
2.00mm Flat Cable Sockets & Plugs.	309

.100" IDC SOCKET

Ordering Information	310
.100" IDC Flat Cable Sockets	311

.100" FLAT CABLE CARD EDGE CONNECTOR

Ordering Information	312
IDC Flat Cable Card Edge Connector.	313

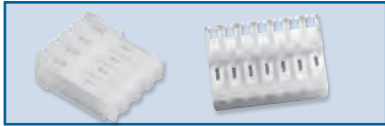
.100" FLAT CABLE BOX HEADER

Ordering Information	314
Flat Cable Box Header	315

.100" IDC FLAT CABLE LATCH HEADER

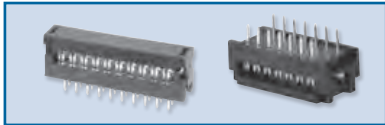
Ordering Information	316
Flat Cable Latch Header	317

INDEX



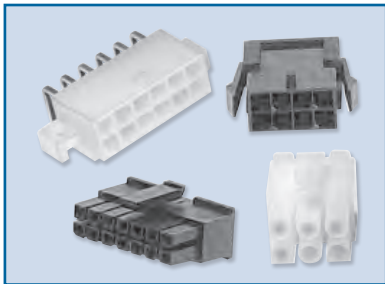
.100" & .156" MASS CONNECT IDC HOUSING W/CONTACTS

Ordering Information	318
MTD Series .100" & .156" Centerline	319



.100" IDC FLAT CABLE DIP & TRANSITION PLUGS

Ordering Information	320
DIP & Transition Plugs	321

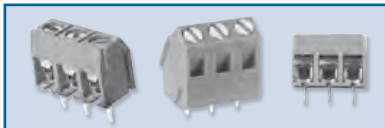


WIRE TO BOARD CONNECTORS

Ordering Information	322
.118" [3.00], .165" [4.20] & .118" [5.08] Housing & Crimp Contact	323-327

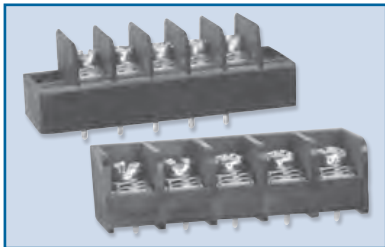
EURO BLOCKS

Ordering Information	328
TS & EB Series Terminal Blocks	329-232



TERMINAL BLOCKS

Ordering Information	333
.250" [6.35] Centerline Block.	334
.250" [6.35] Closed Back Block.	335
.325" [8.25] Centerline Block.	336-337
.325" [8.25] Closed Back Block.	338
.374" [9.50] Centerline Block.	339
.374" [9.50] Closed Back Block.	340
Euro Terminal Blocks	341
Dual Row 10 AMP, 20 AMP & 30 AMP	342



BATTERY HOLDERS & SNAPS

Ordering Information	343
Alkaline Battery Holders	344
Lithium Battery Coin Cell Holders	345
9V Battery Snaps.	346
Mobile Battery Connector	347



POWER CORD SETS

Ordering Information	348
Power Cords	349

CUSTOM CABLE ASSEMBLIES

Custom Cable Assemblies	350
-----------------------------------	-----

CUSTOM SOLUTIONS

Custom Connector Solutions	351
--------------------------------------	-----



INDEX BY SERIES 352

INDEX BY PRODUCT Inside Back Cover

INTRODUCTION:

Adam Tech MTJ series Modular Jacks are a complete line of PCB and wire leaded jacks which are UL approved and meet all required FCC rules and regulations. Adam Tech offers a multitude of sizes (4P2C thru 10P10C) with styles including single, ganged and stacked versions with options of ferrite or magnetic filtering and or metal shielding. Jacks with integral LED's and combination hybrids such as MTJ/USB jacks are also available. These jacks are available in thru-hole or SMT mounting.

FEATURES:

- UL 1863 recognized versions
- FCC compliant to No. 47 CFR part 68
- Magnetic and Ferrite filtered types
- 4,6,8 and 10 positions available
- Single, stacked or ganged
- Hi-Temp and LED options
- Unshielded or Metal Shielded
- Thru-Hole or SMT mounting
- Cat. 5 & 5e ANSI/TIA/EIA 568.2

MATING PLUGS:

Adam Tech modular plugs and all industry standard telephone plugs.

SPECIFICATIONS:

Material:

- Standard Insulator: PBT, or ABS, rated UL94V-0
- Optional Hi-Temp Insulator: Nylon 6T rated UL94V-0
- Insulator Colors: Black or medium gray
- Contacts: Phosphor Bronze
- Shield: Phosphor Bronze, Nickel plated

Contact Plating:

- Flat contacts: Gold over Nickel underplate on contact area, Tin over Copper underplate on solder tails.
- Round contacts: Gold over Nickel underplate overall

Electrical:

- Operating voltage: 150V AC max.
- Current rating: 1.5 Amps max.
- Contact resistance: 20 mΩ max. initial
- Insulation resistance: 500 MΩ min.
- Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

- Insertion force: 4 contacts: 17.6N
- 6 contacts: 20.6N
- 8 contacts: 22.5N
- 10 contacts: 24.5N

Durability: 500 Cycles

Temperature Rating:

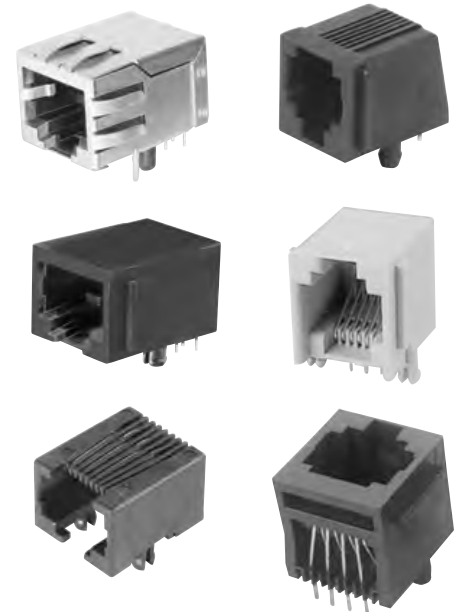
- Operating temperature: -40°C to +85°C
- Soldering process temperature:
 - Standard insulator: 235°C
 - Hi-Temp insulator: 260°C

PACKAGING:

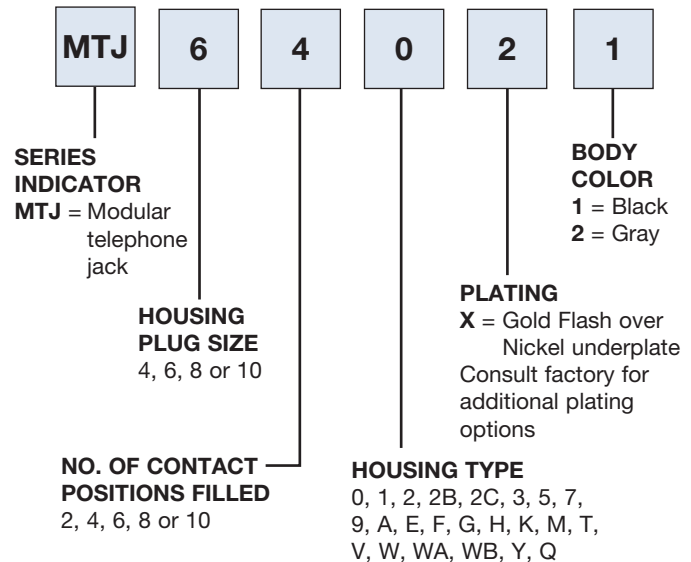
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224049



ORDERING INFORMATION

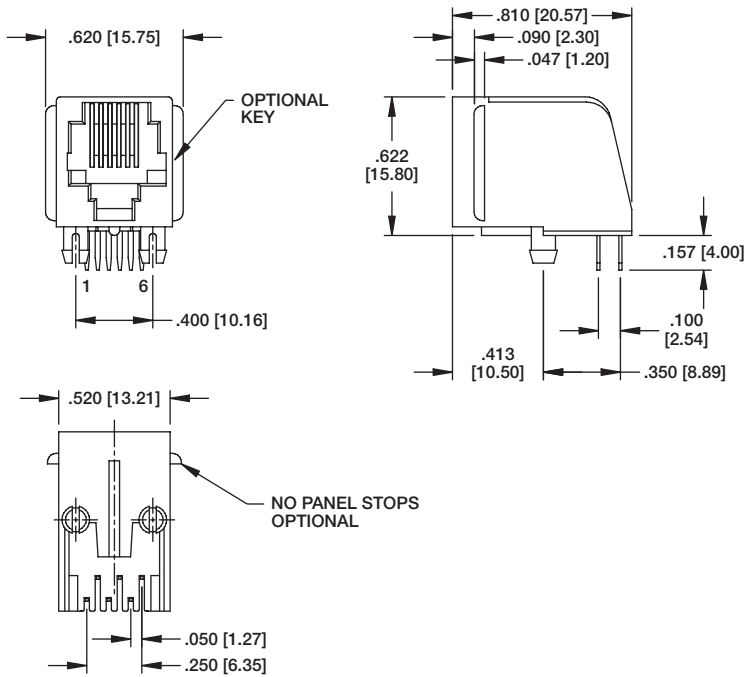


OPTIONS:

- Add designator(s) to end of part number
- S** = Face shielded jack (Body type 0 only)
- FSX** = Full metal shield (Use FSA, FSB, FSD, FSE)
- SMT** = Surface mount tails, housings 0, 5, 9, G & W with Hi-Temp insulator
- N** = No panel stops (Types: 1, 0, 2, 3, D)
- K** = Keyed telephone jack
- HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)
- PG** = Panel ground tabs
- KT** = Kapton Tape pickup when applicable

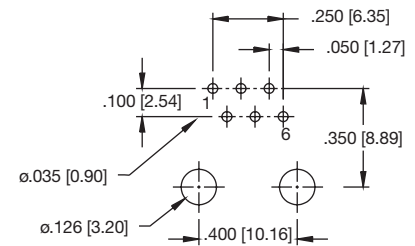
TYPE 1

6P6C
6P4C



MTJ-661X1

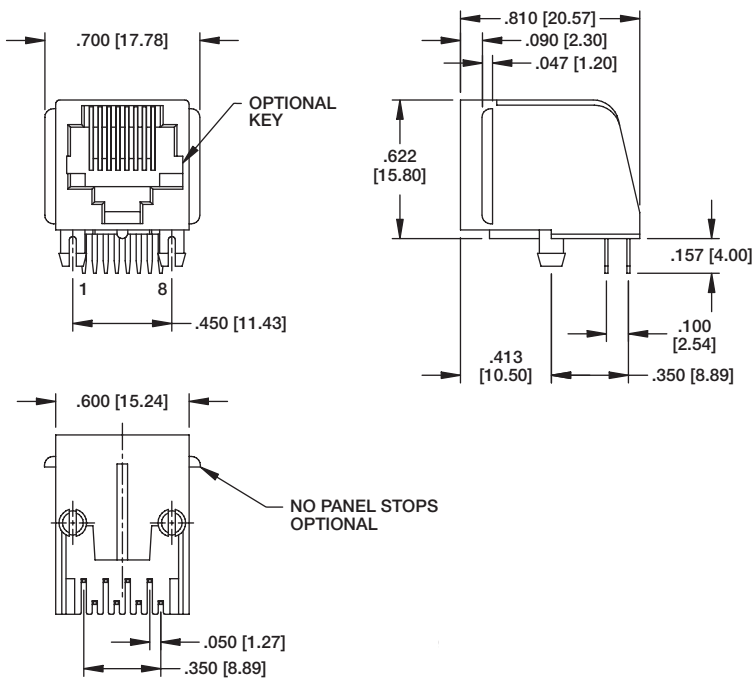
Ordering Information pg. 9



Recommended PCB Layout

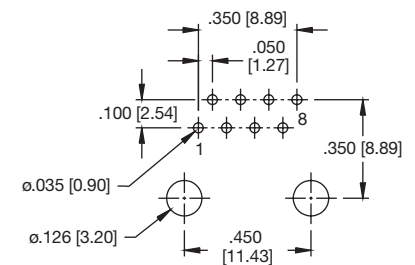
TYPE 1

8P8C



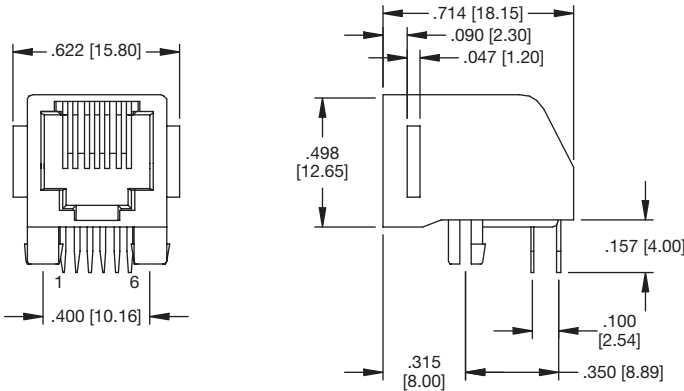
MTJ-881X1

Ordering Information pg. 9



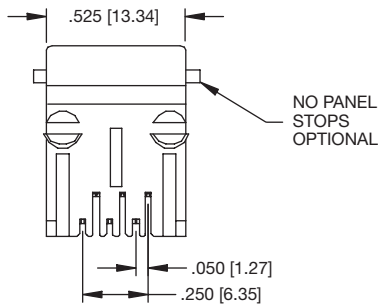
Recommended PCB Layout

TYPE 0
6P6C
6P4C

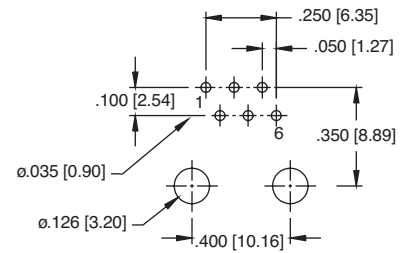


MTJ-660X1

[Ordering Information pg. 9](#)

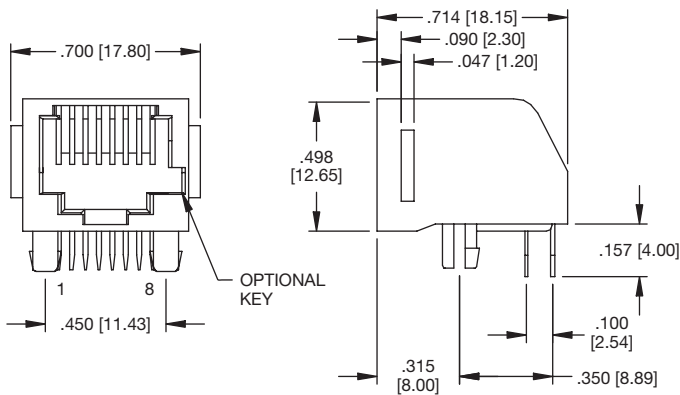


Face Shield Option



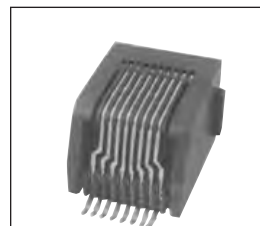
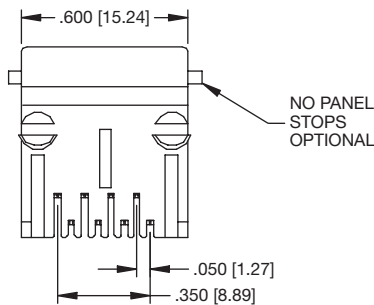
Recommended PCB Layout

TYPE 0
8P8C

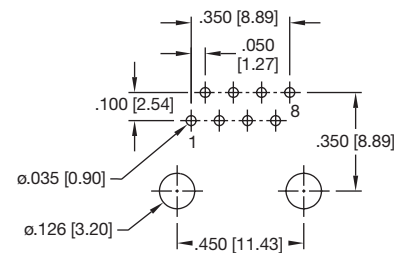


MTJ-880X1

[Ordering Information pg. 9](#)



SMT Option

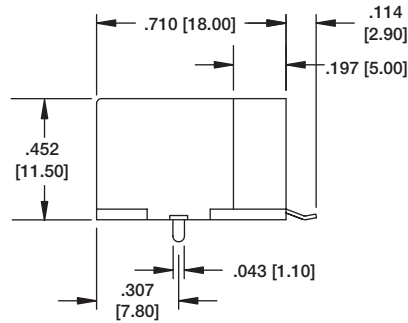
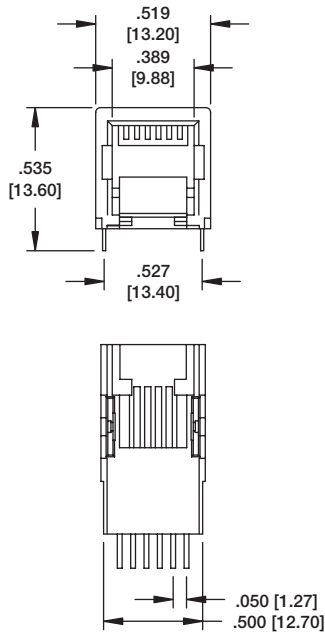


Recommended PCB Layout

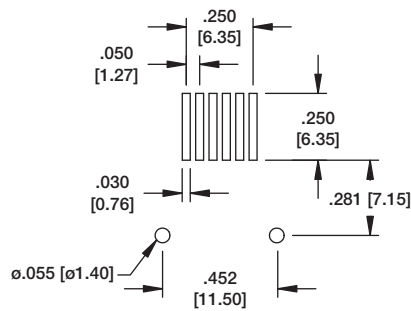
Ordering Information pg. 9

TYPE Y

**6P6C
6P4C**



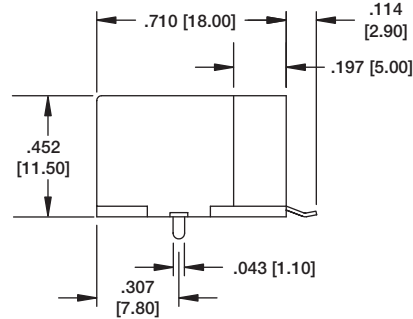
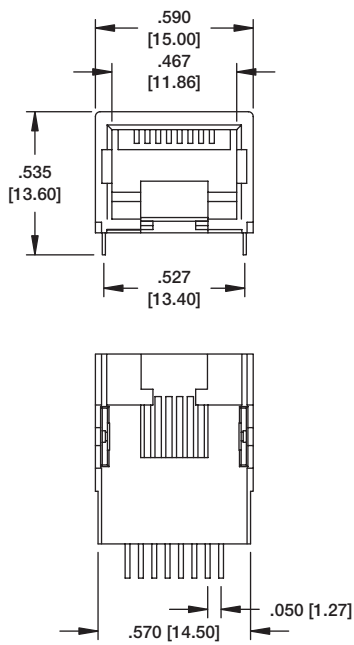
MTJ-66YX1



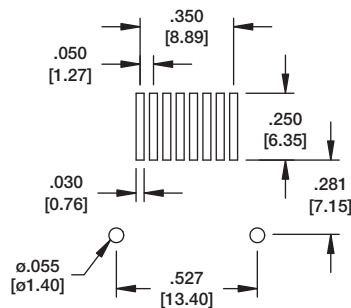
Recommended PCB Layout

TYPE Y

8P8C

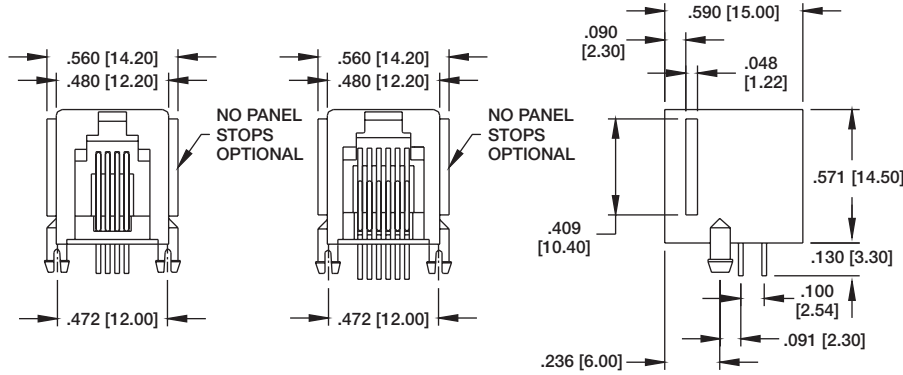


MTJ-88YX1



Recommended PCB Layout

Ordering Information pg. 9

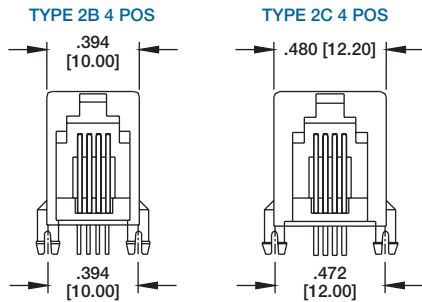


MTJ-662X2



MTJ-442X2

TYPE 2
4P4C
6P6C
6P4C

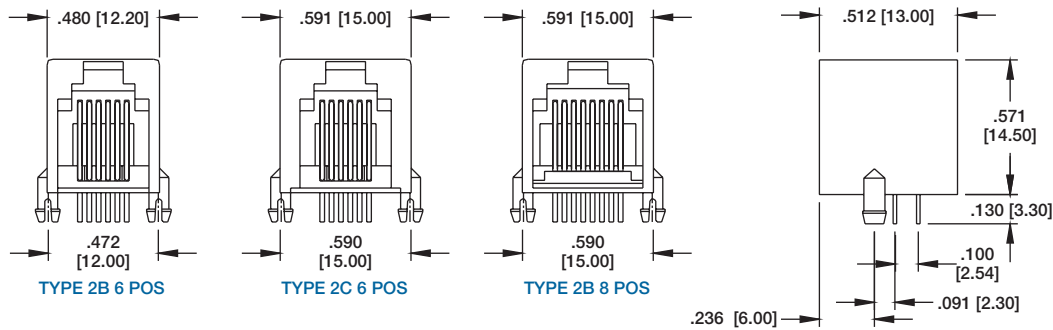


MTJ-442BX2



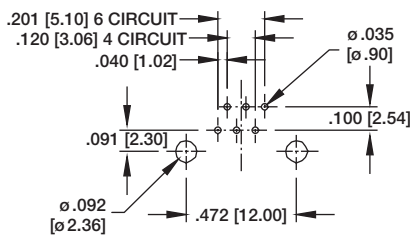
MTJ-662BX2

TYPE 2B & 2C
4P4C
6P6C
6P4C
8P8C

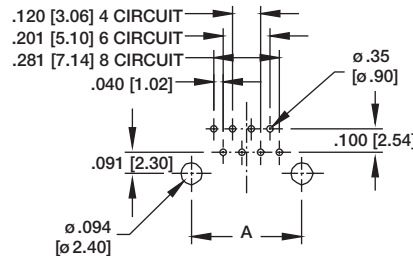


MTJ-882BX1

TYPE 2



TYPE 2B & 2C



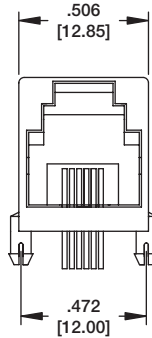
Recommended PCB Layout

DIM. "A"	
TYPE 2B 4P4C	.394 [10.00]
TYPE 2C 4P4C	.472 [12.00]
TYPE 2B 6P6C	.472 [12.00]
TYPE 2C 6P6C	.591 [15.00]
TYPE 2B 8P8C	.590 [15.00]

Ordering Information pg. 9

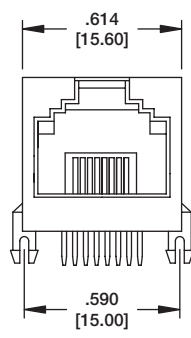
**TYPE 2B
SHIELDED**
6P6C
6P4C
8P8C

MTJ-662BX1-FS

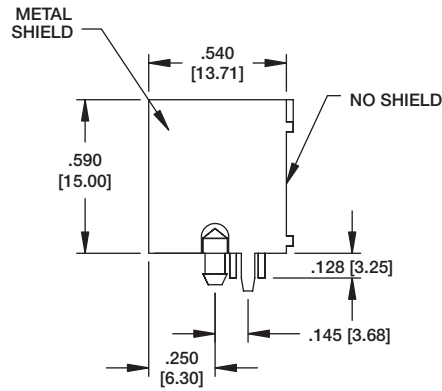


**6 POS
2B SHIELDED**

MTJ-882BX1-FS



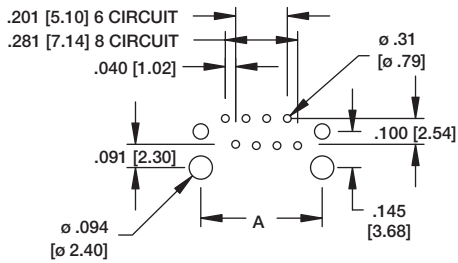
**8 POS
2B SHIELDED**



MTJ-662BX1-FS

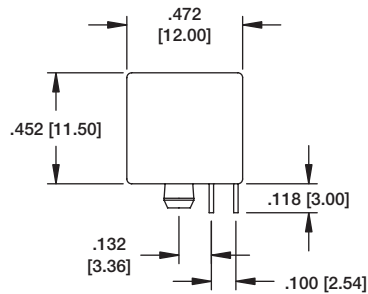
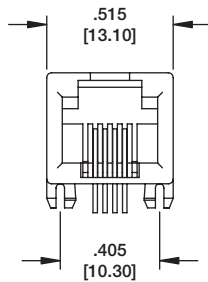


MTJ-882BX1-FS

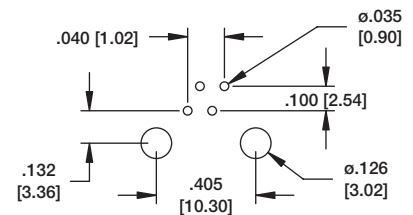
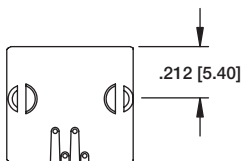


Recommended PCB Layout

DIM. "A"	
TYPE 2B 6P6C	.472 [12.00]
TYPE 2B 8P8C	.590 [15.00]



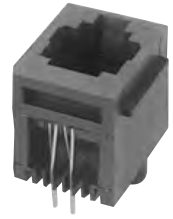
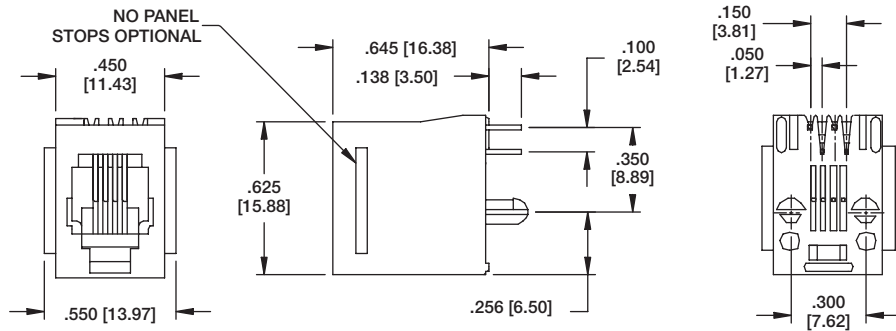
MTJ-44QX1



Recommended PCB Layout

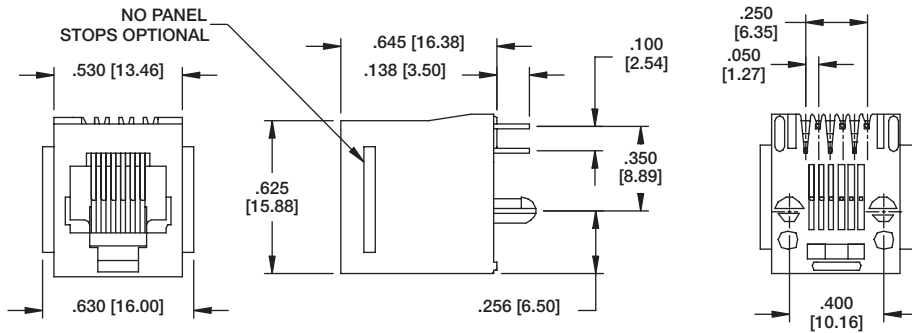
Ordering Information pg. 9

TYPE 3
4P4C



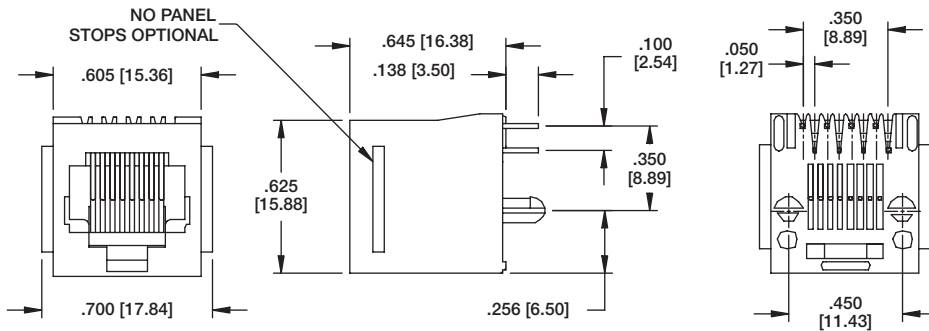
MTJ-443X1

TYPE 3
6P4C



MTJ-663X1

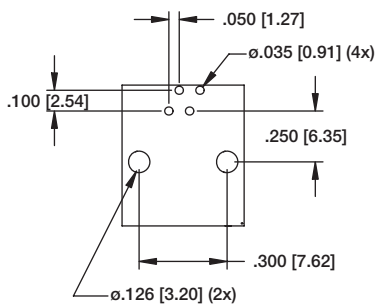
TYPE 3
8P8C



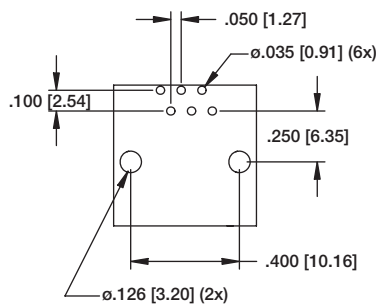
MTJ-883X1

Recommended PCB Layout

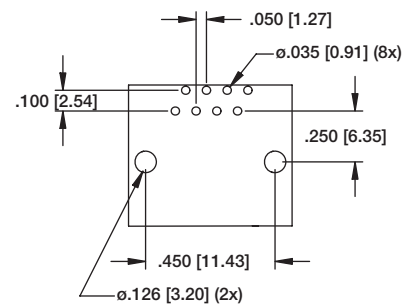
4p4c



6p4c
6p6c

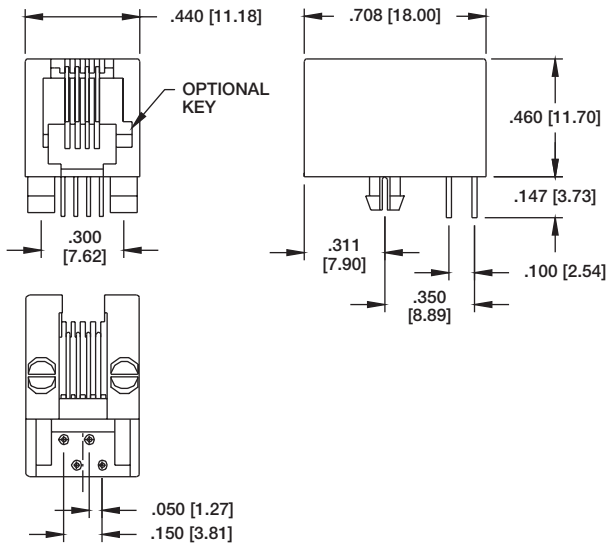


8p8c



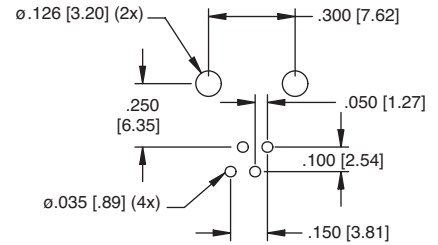
Ordering Information pg. 9

TYPE 5
4P4C

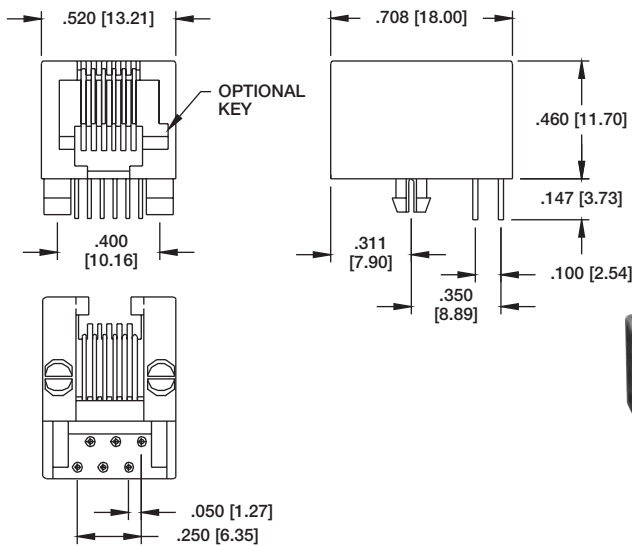


MTJ-445X1

Recommended PCB Layout

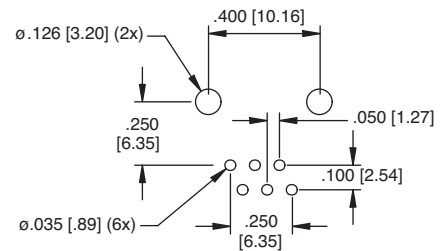


TYPE 5
6P4C
6P6C



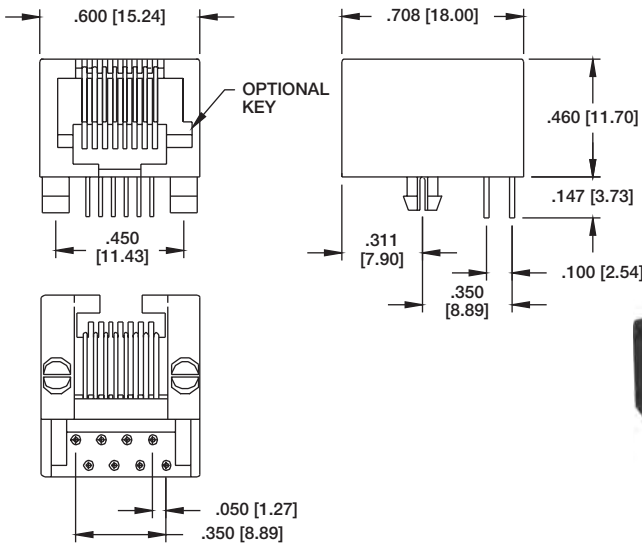
MTJ-665X1

Recommended PCB Layout



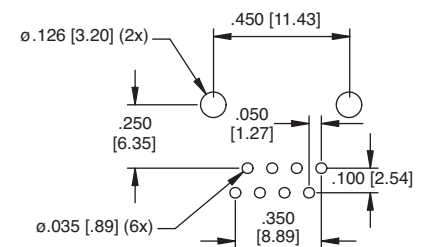
TYPE 5
8P8C

MT Option



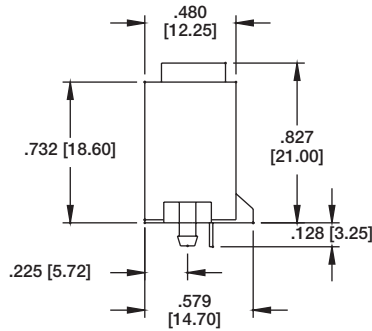
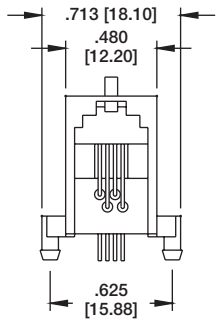
MTJ-885X1

Recommended PCB Layout



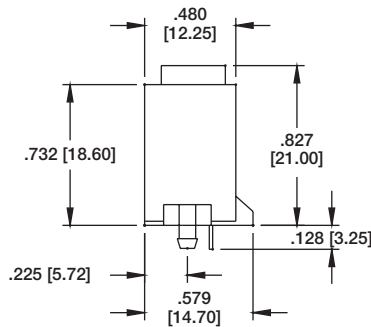
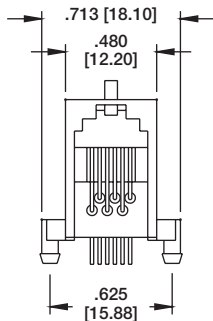
Ordering Information pg. 9

TYPE 7
4P4C



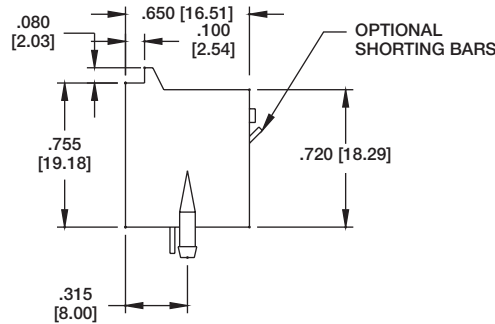
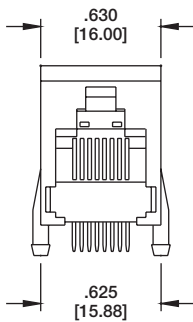
MTJ-447X1

TYPE 7
6P4C
6P6C



MTJ-647X1

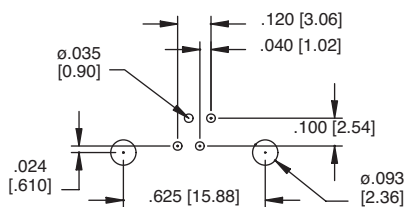
TYPE 7
8P8C



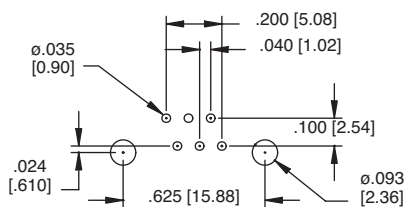
MTJ-887X1

Recommended PCB Layout

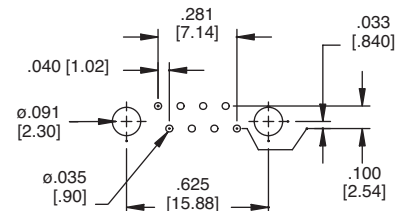
4p4c



6p4c
6p6c

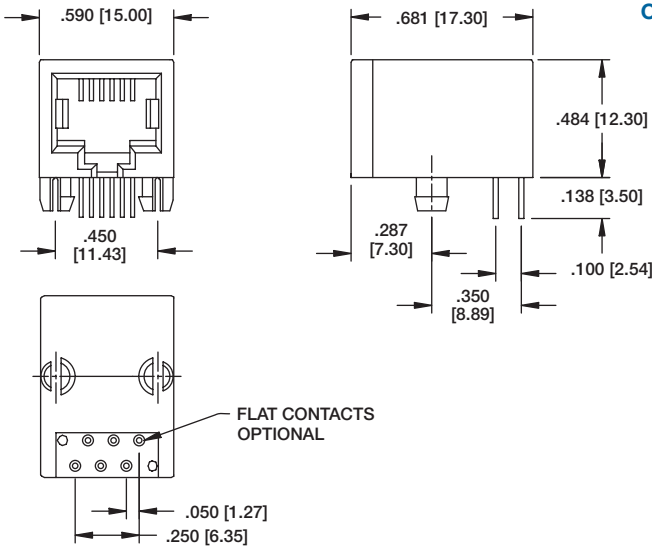


8p8c

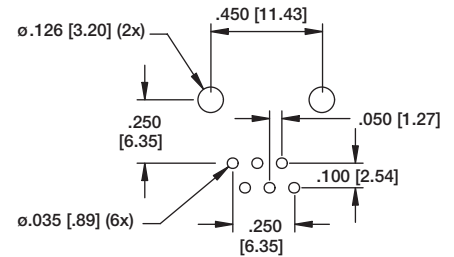


Ordering Information pg. 9

TYPE 9
6P4C
6P6C

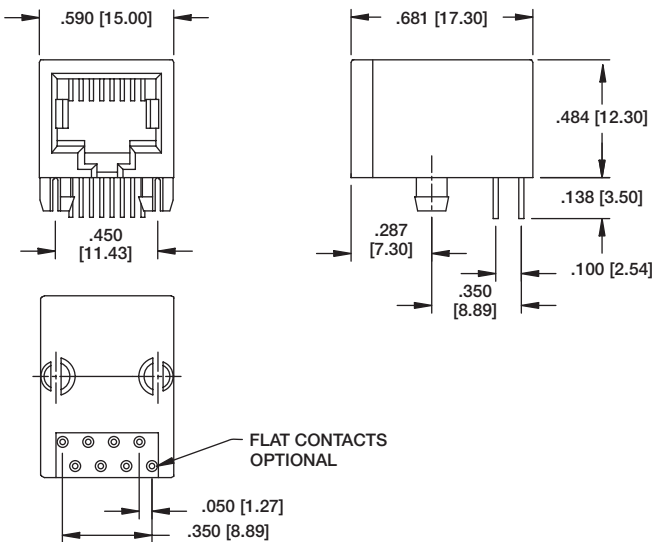


MTJ-669X1

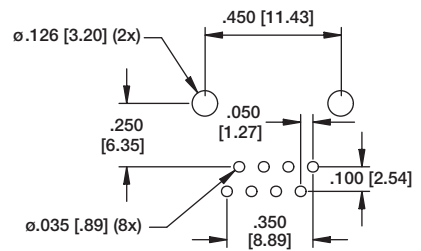


Recommended PCB Layout

TYPE 9
8P8C



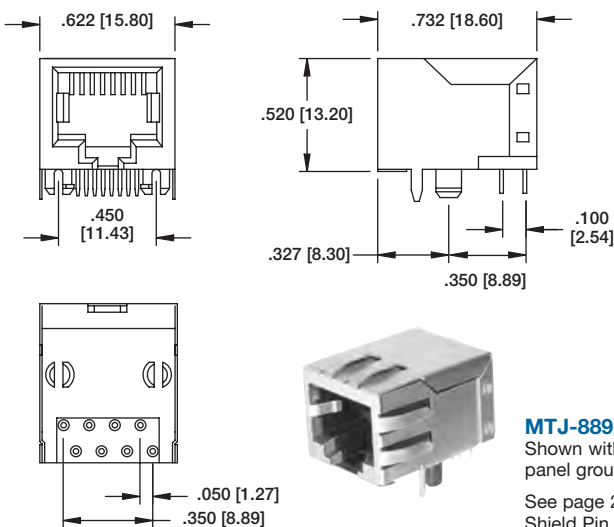
MTJ-889X1



Recommended PCB Layout

TYPE 9
8P8C
SHIELDED

SMT Option



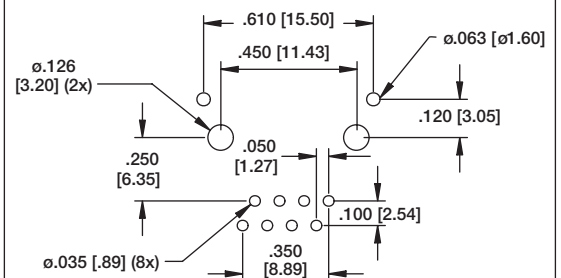
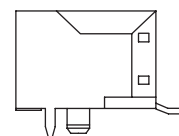
MTJ-889X1-FSE



MTJ-889X1-FSE-PG

Shown with optional panel ground tabs

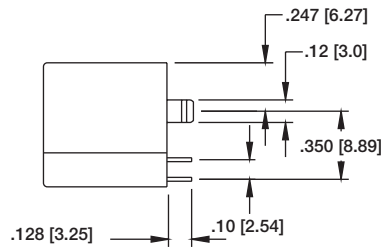
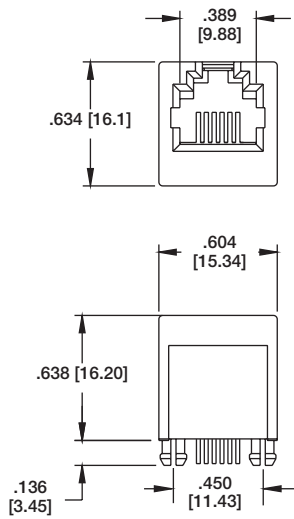
See page 20 for other Shield Pin Location Options



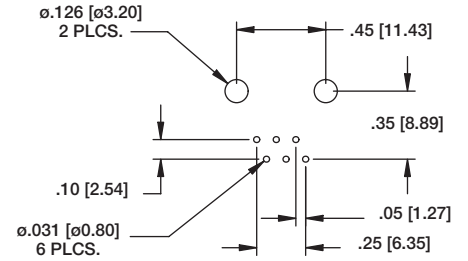
Recommended PCB Layout

Ordering Information pg. 9

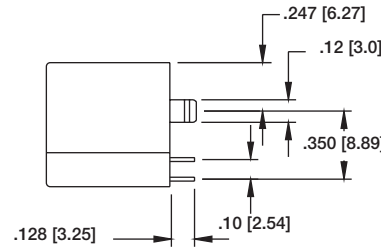
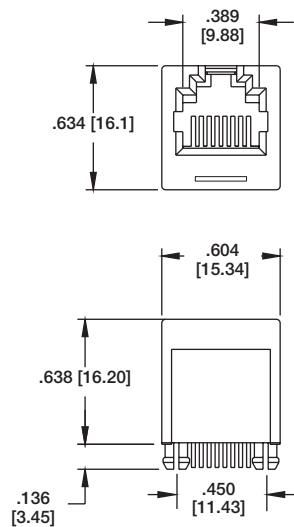
TYPE F
6P6C



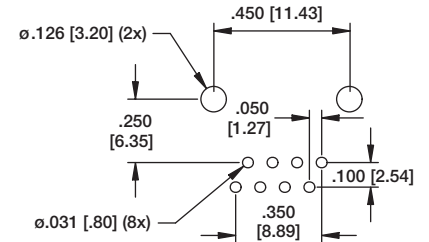
MTJ-66FX1



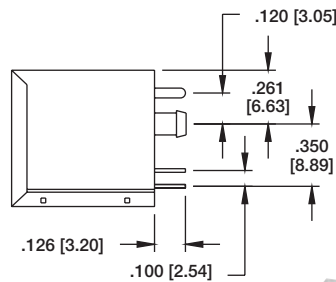
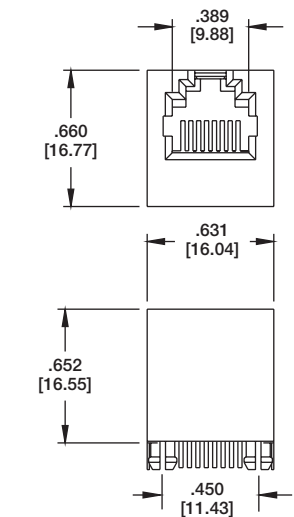
Recommended PCB Layout



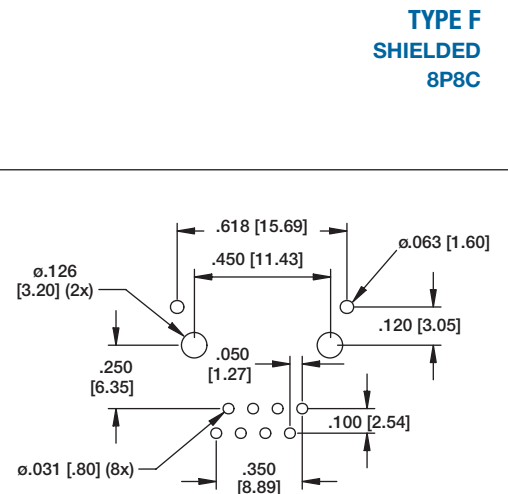
MTJ-88FX1



Recommended PCB Layout



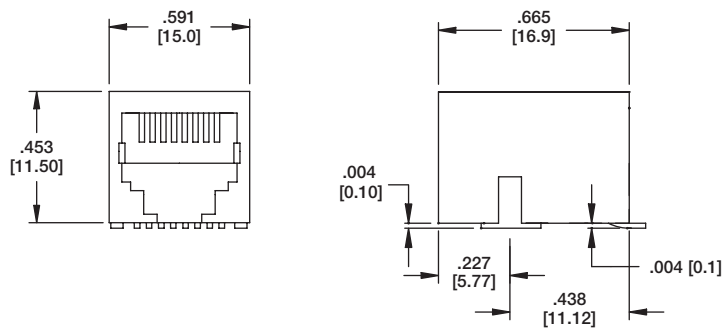
MTJ-88FX1-FS



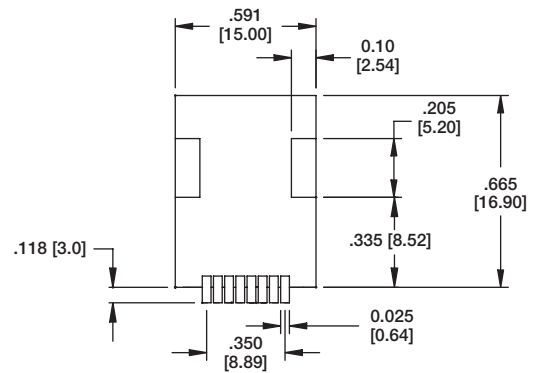
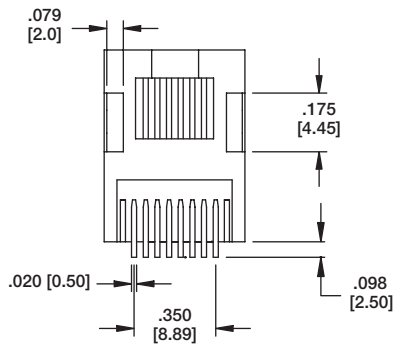
Recommended PCB Layout

Ordering Information pg. 9

TYPE WA
SMT TABS IN
8P8C

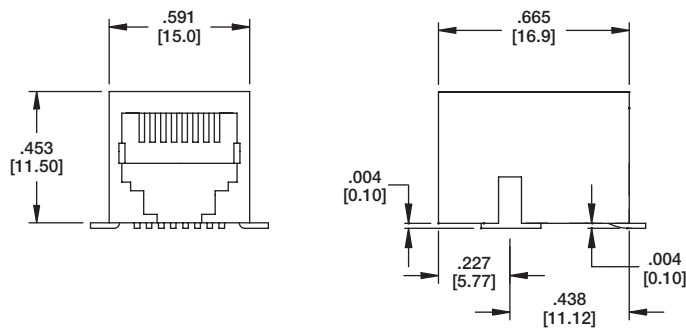


MTJ-88WAX1

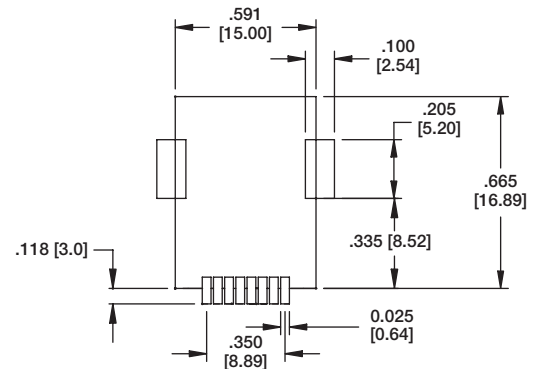
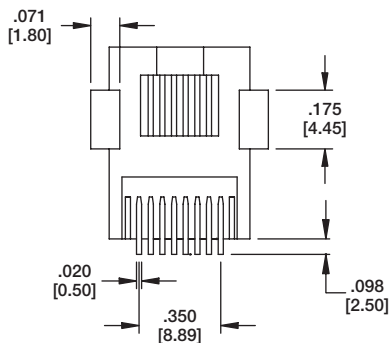


Recommended Solder Pad Layout

TYPE WB
SMT TABS OUT
8P8C



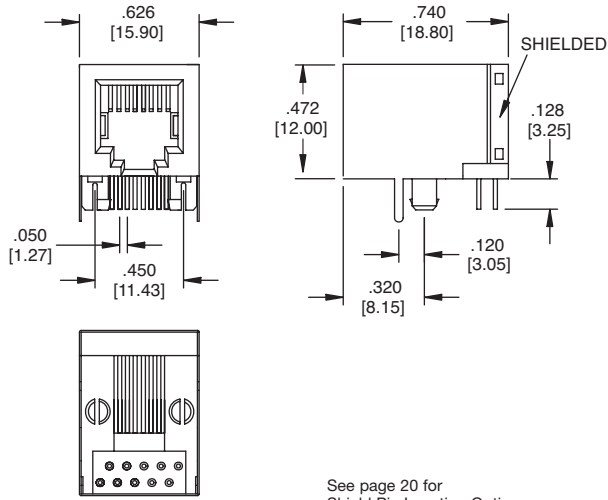
MTJ-88WBX1



Recommended Solder Pad Layout

Ordering Information pg. 9

TYPE W
SHIELDED, THRU HOLE
8P8C
10P10C



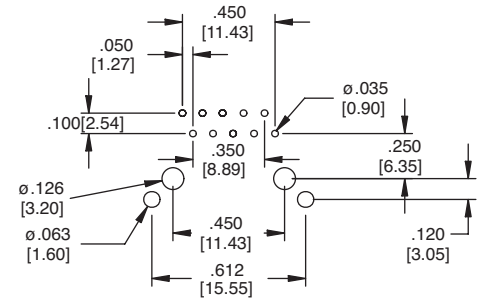
See page 20 for Shield Pin Location Options



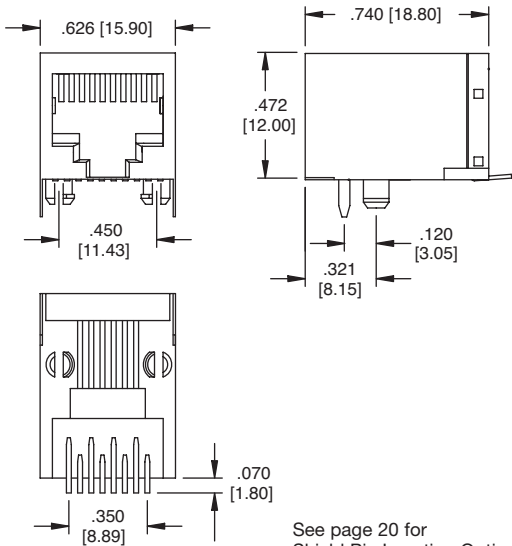
MTJ-88WX1-FSE



MTJ-88WX1-FSE-PG
Shown with optional panel ground tabs



Recommended PCB Layout



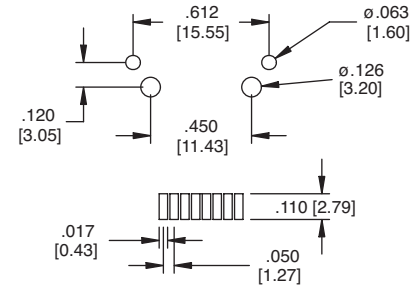
See page 20 for Shield Pin Location Options



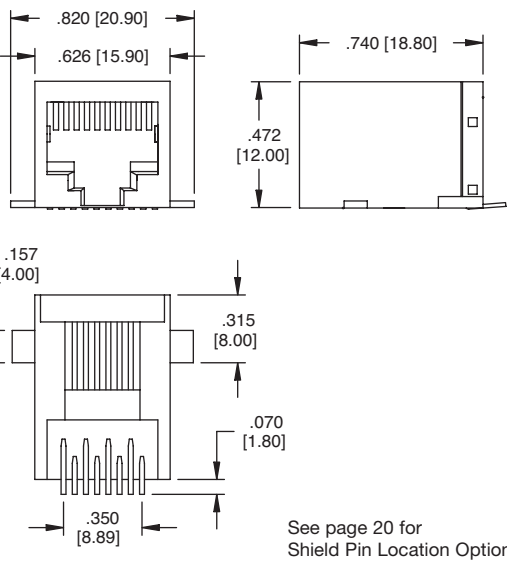
MTJ-88WX1-FSE-SMT



MTJ-88WX1-FSE-SMT-PG
Shown with optional panel ground tabs



Recommended Solder Pad Layout



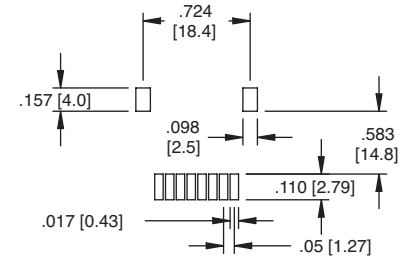
See page 20 for Shield Pin Location Options



MTJ-88WX1-FS-TSMT



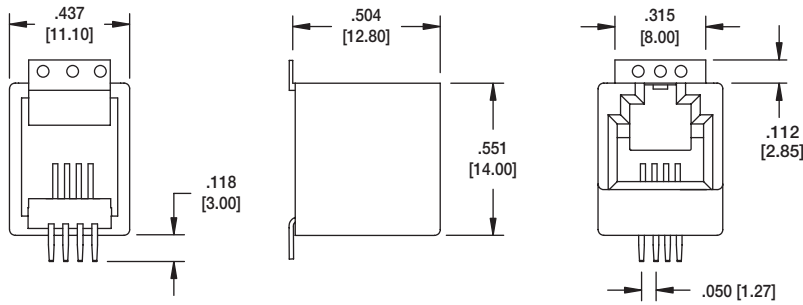
MTJ-88WX1-FS-TSMT-PG
Shown with optional panel ground tabs



Recommended Solder Pad Layout

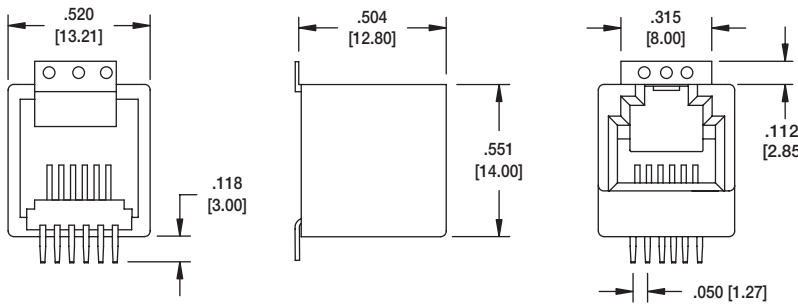
Ordering Information pg. 9

TYPE H
4P4C



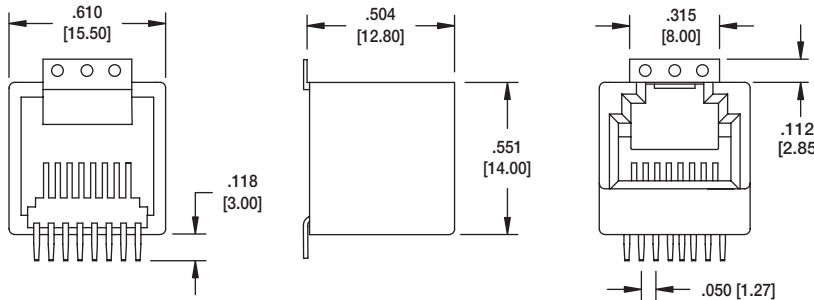
MTJ-44HX1

TYPE H
6P6C



MTJ-66HX1

TYPE H
8P8C



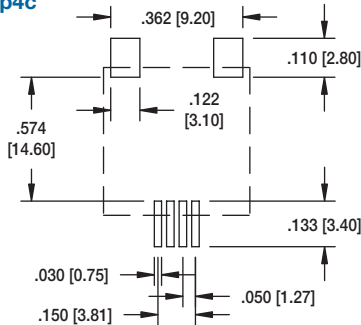
MTJ-88HX1



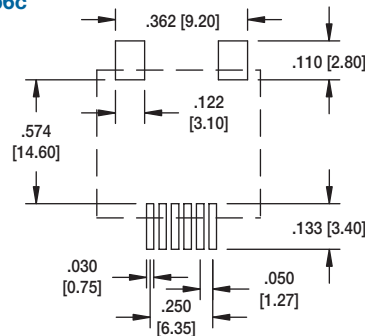
MTJ-88HX1-FS

Recommended PCB Layout

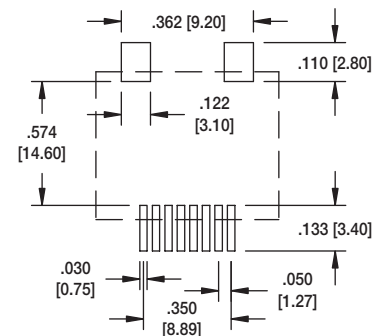
4p4c



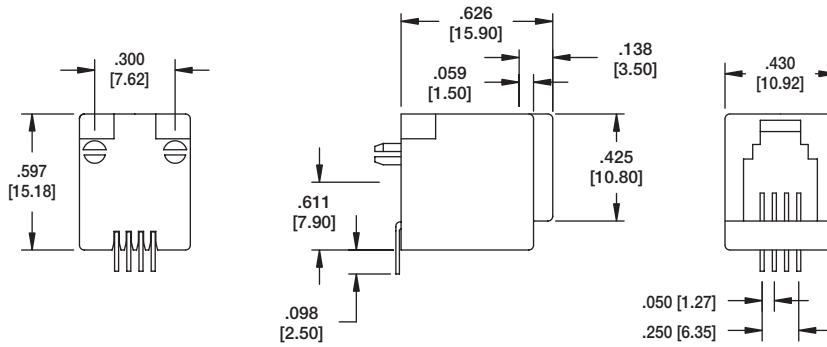
6p6c



8p8c



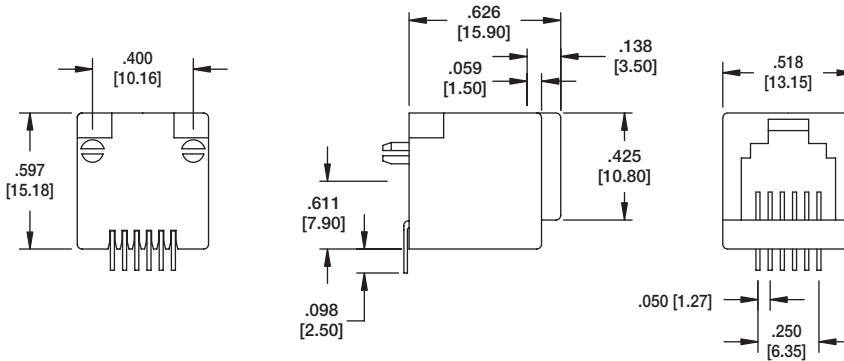
Ordering Information pg. 9



TYPE K
4P4C



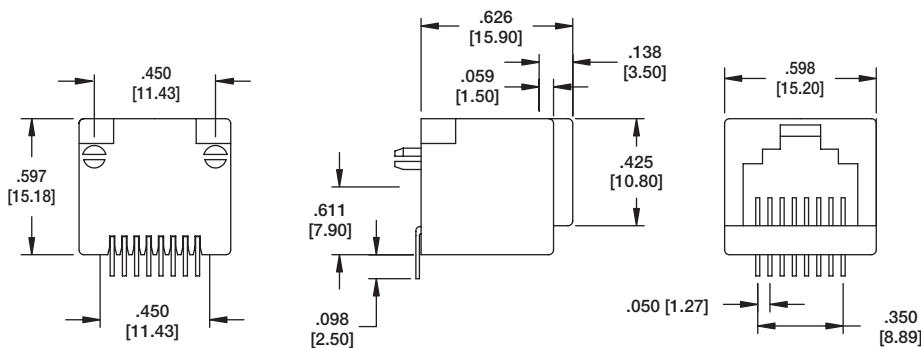
MTJ-44KX1



TYPE K
6P4C
6P6C



MTJ-66KX1



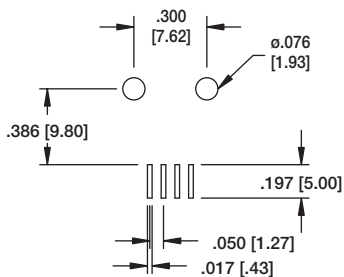
TYPE K
8P8C



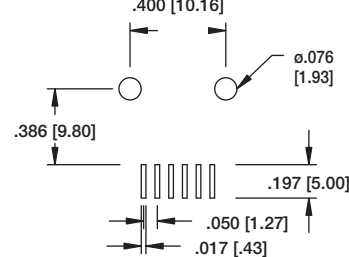
MTJ-88KX1

Recommended PCB Layout

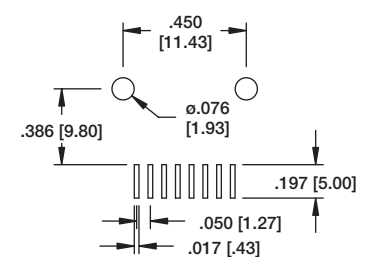
4p4c



6p6c

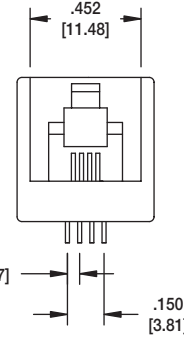
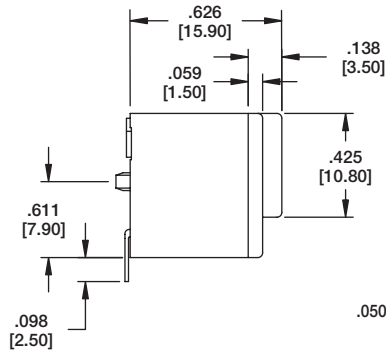
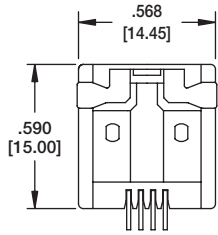


8p8c



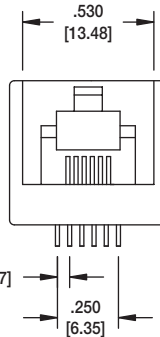
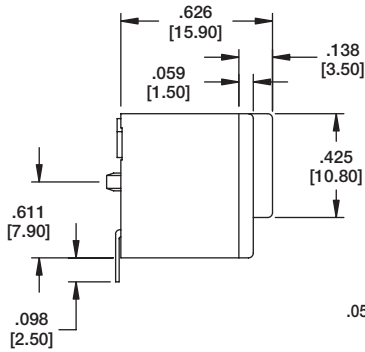
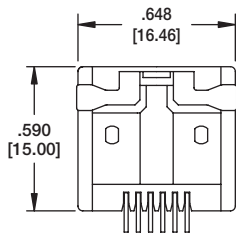
Ordering Information pg. 9

TYPE V
4P4C



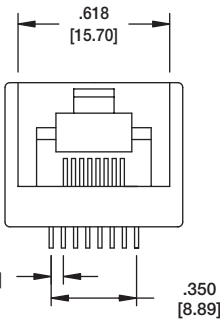
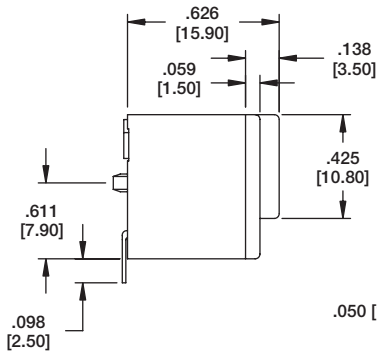
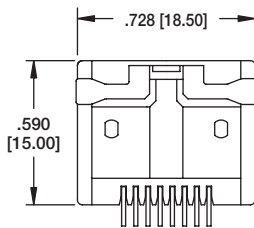
MTJ-44VX1-SMT

TYPE V
6P6C
6P4C



MTJ-66VX1-SMT

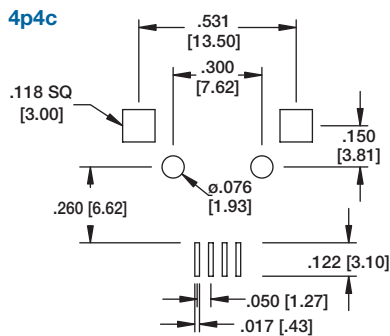
TYPE V
8P8C



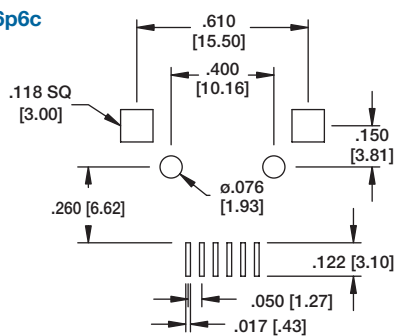
MTJ-88VX1-SMT

Recommended PCB Layout

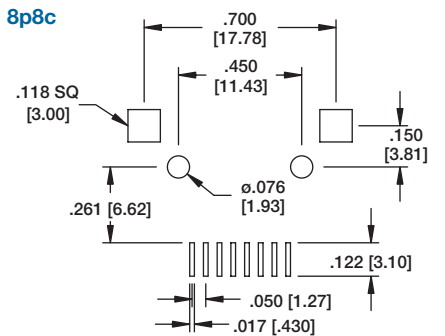
4p4c



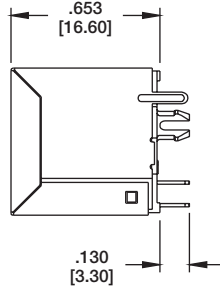
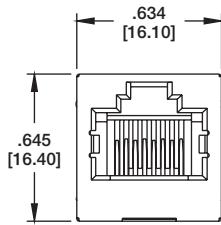
6p6c



8p8c



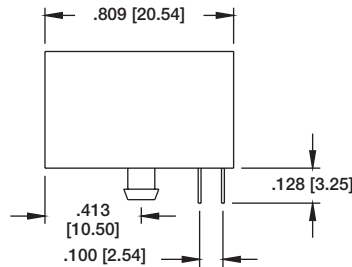
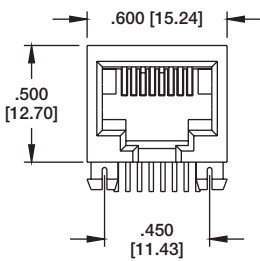
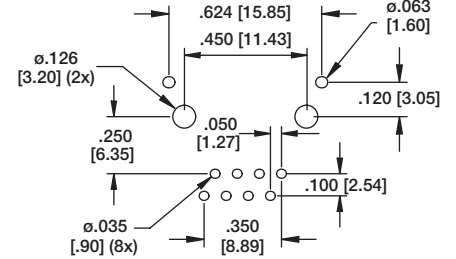
Ordering Information pg. 9



MTJ-88AX1-FSE

TYPE A
CAT. 5, TOP ENTRY
8P8C

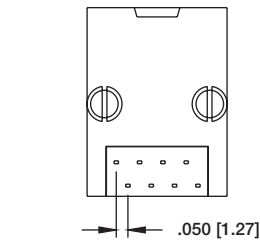
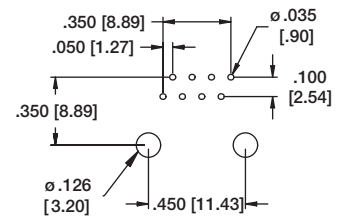
Recommended PCB Layout



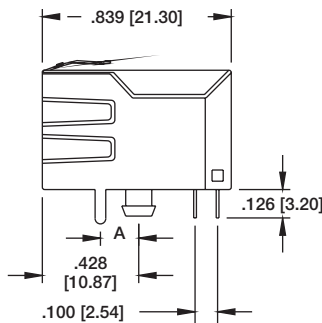
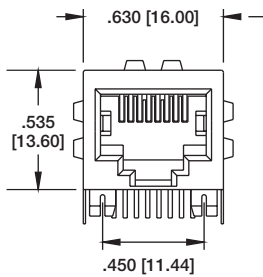
MTJ-88TX1

TYPE T
CAT. 5, SIDE ENTRY
8P8C

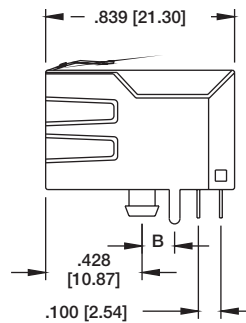
Recommended PCB Layout



TYPE T
CAT. 5, SHIELDED
8P8C



FSA, FSB & FSE

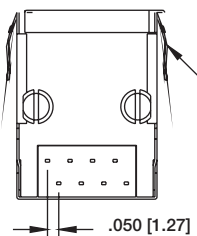


FSD = .120 [3.05]



MTJ-88TX1-FSE-PG

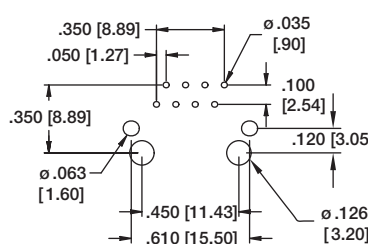
Available with or without panel ground tabs



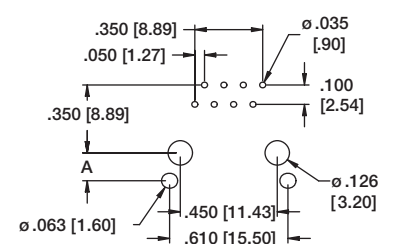
OPTIONAL PANEL GROUND TABS

Dimensions A & B
SHIELD PIN LOCATION OPTIONS
FSA OPTION: A = .170 [4.32]
FSB OPTION: A = .144 [3.66]
FSE OPTION: A = .120 [3.05]
FSD OPTION: B = .120 [3.05]

PCB Layout (FSD)

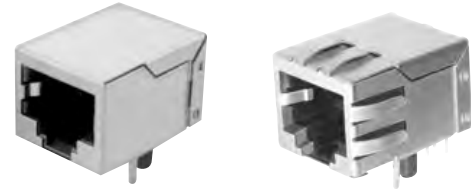
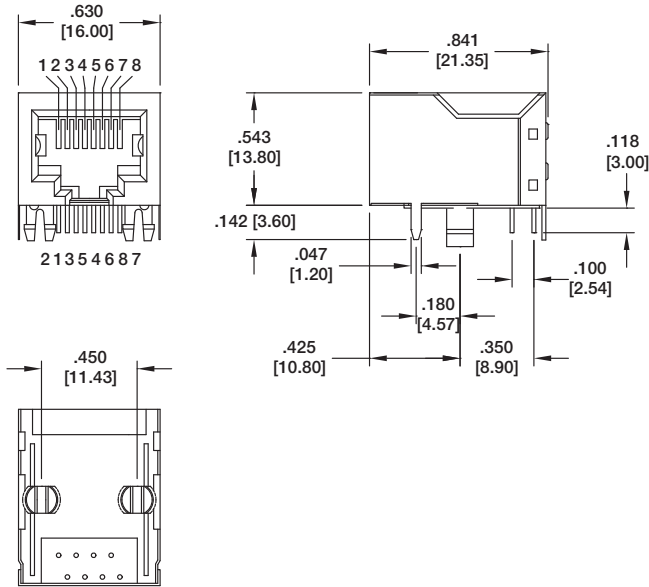


PCB Layout (FSA, FSB & FSE)



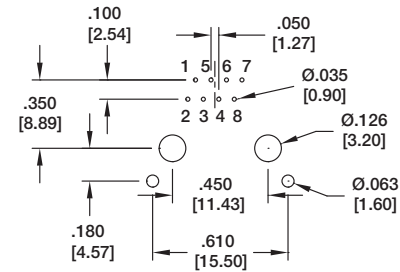
TYPE T

CAT. 5e, SHIELDED



MTJ-88TX1-FSG-C5e

MTJ-88TX1-FSG-PG-C5e

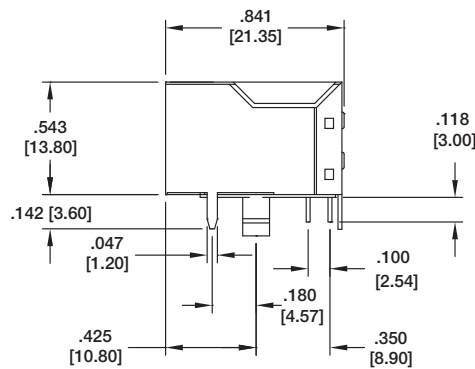
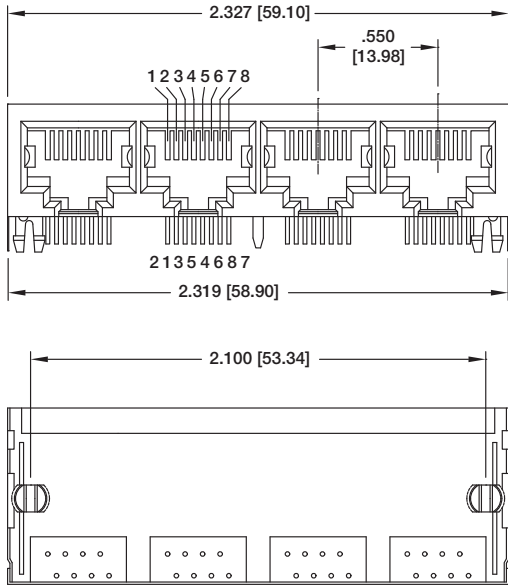


Recommended PCB Layout

TYPE T

GANGED

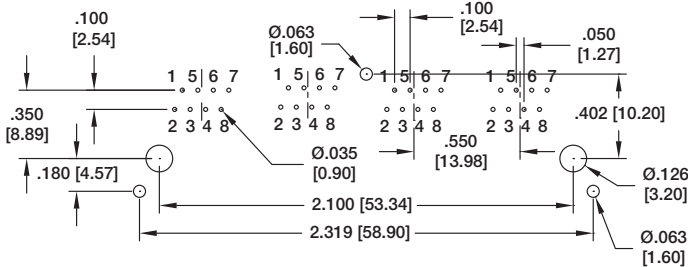
CAT. 5e, SHIELDED



MTJG-4-88TX1-FSG-C5e



MTJG-4-88TX1-FSG-PG-C5e



Recommended PCB Layout

LED 1 OPTION LED 2 OPTION

SHIELD

Dimensions: .649 [16.50], .500 [12.70], .531 [13.50], .620 [15.75], .212 [5.40], .135 [3.43], .103 [2.62], .540 [13.72], .360 [9.14], .281 [7.14], .040 [1.02], .070 [1.78], .135 [3.43], .500 [12.70], .360 [9.14], .639 [16.25]

TYPE AR
LED JACK .531" HEIGHT
TOP TAB & TOP LEDs, THRU HOLE
8P8C

MTJ-88ARX1-FS-LG
Also available with panel ground tabs

LED 1 OPTION LED 2 OPTION

SHIELD

Dimensions: .649 [16.50], .445 [11.30], .055 [1.41], .452 [11.48], .630 [16.00], .063 [1.60], .594 [15.10], .531 [13.50], .441 [11.20], .086 [2.20], .063 [1.60], .177 [4.50], .171 [4.35], .552 [14.02], .452 [11.48], .352 [8.94], .070 [1.78], .142 [3.60], .057 [1.45], .281 [7.14], .171 [4.35], .031 [0.80], .630 [16.00]

TYPE AA
LED JACK BOTTOM TAB &
BOTTOM LEDs THRU HOLE
8P8C

MTJ-88AAX1-FSV-LG

LED 1 OPTION LED 2 OPTION

SHIELD

Dimensions: .720 [18.30], .620 [15.75], .505 [12.83], .195 [4.95], .610 [15.50], .085 [2.16], .135 [3.43], .230 [5.84], .540 [13.72], .020 [0.51], .090 [2.29], .035 [0.90], 12 PLCS, .100 [2.54], .230 [5.84], 0.40 [1.02], .281 [7.14], .500 [12.70], .128 [3.25]

TYPE D
TOP ENTRY LED JACK .610" HEIGHT WITH LEDs, NON-SHIELDED
8P8C

MTJ-88DX1-LG

Add suffix to end of P/N:

LED CONFIGURATION		
SUFFIX	LED 1	LED 2
LA	YELLOW	YELLOW
LD	GREEN	GREEN

See pg. 43 for additional LED options

Recommended PCB Layout

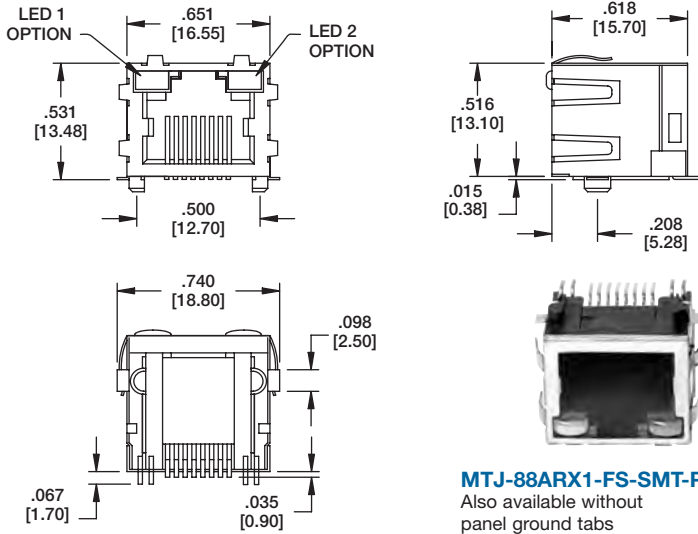
JACKS WITH LEDs ORDERING INFORMATION

MTJ	8	8	AR	2	1	LD
SERIES INDICATOR MTJ = Modular telephone jack	HOUSING PLUG SIZE 8 or 10	NO. OF CONTACT POSITIONS FILLED 6, 8 or 10	HOUSING TYPE AR, AA, D, G	PLATING X = Gold Flash 0 = 15 μin gold 1 = 30 μin gold 2 = 50 μin gold	BODY COLOR 1 = Black 2 = Gray	LED CONFIGURATION See Chart above Leave blank for no LEDs

OPTIONS:
SMT = Surface mount tails with Hi-Temp insulator
PG = Panel Ground Tabs
LX = LEDs, use LA, LD, LG, LH, LI, see LED Configuration Chart

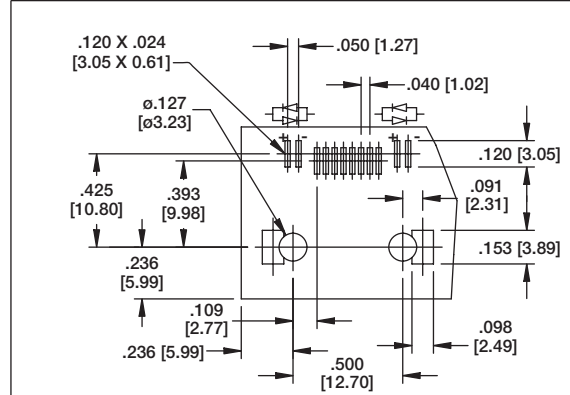
Ordering Information pg. 29

**TYPE AR
WITH SMT OPTION
8P8C**



MTJ-88ARX1-FS-SMT-PG-LG

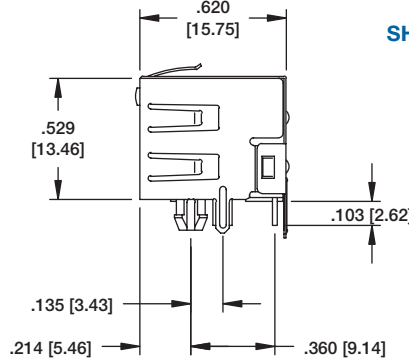
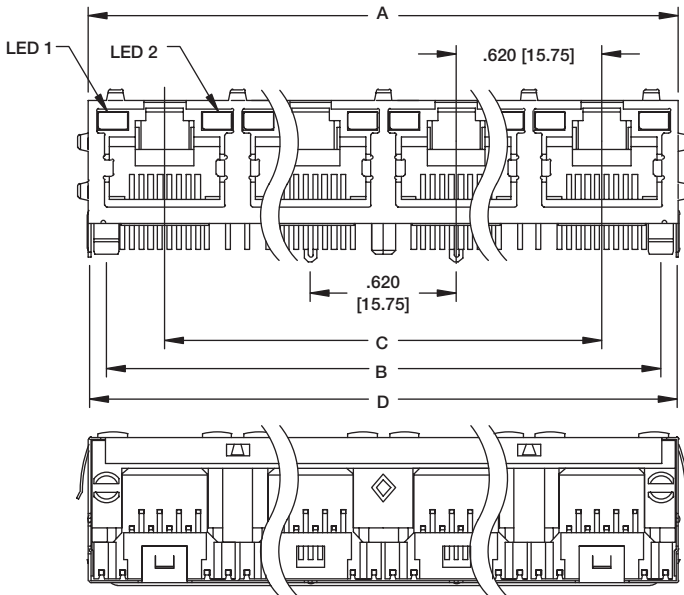
Also available without panel ground tabs



Recommended PCB Layout

Ordering Information pg. 34

**TYPE AR
GANGED WITH METAL
SHIELD, PANEL GROUND
TABS AND
LED OPTION
8P8C**



MTJG-4-88ARX1-FSM-PG-LG

Shown with metal shield, panel ground tabs and LED options

Add suffix to end of P/N:

LED CONFIGURATION		
SUFFIX	LED 1	LED 2
LA	YELLOW	YELLOW
LD	GREEN	GREEN

2, 4 & 8 Ports available

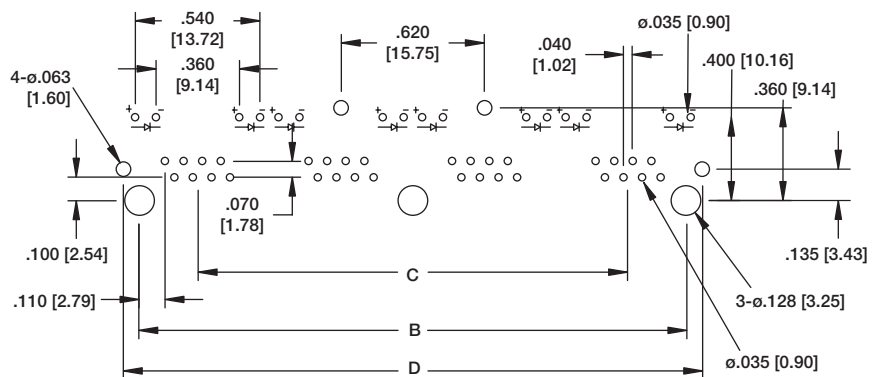
See pg. 43 for additional LED options

A = .620 [15.75] x No. of Ports + .029 [0.75]

B = .620 [15.75] x No. of Ports - 1 + .500 [12.70]

C = .620 [15.75] x No. of Ports - 1

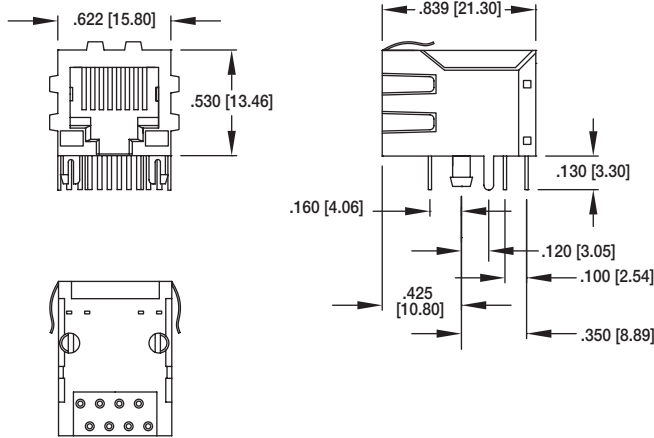
D = .620 [15.75] x No. of Ports + .019 [0.50]



Recommended PCB Layout

Ordering Information pg. 29

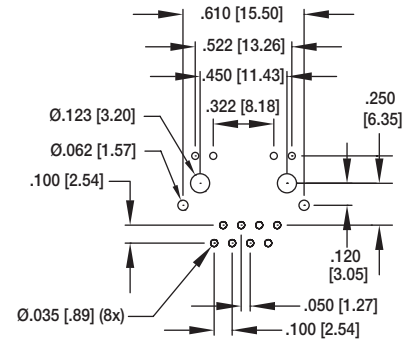
TYPE G WITH LEDs



MTJ-88GX1-FSD-LH

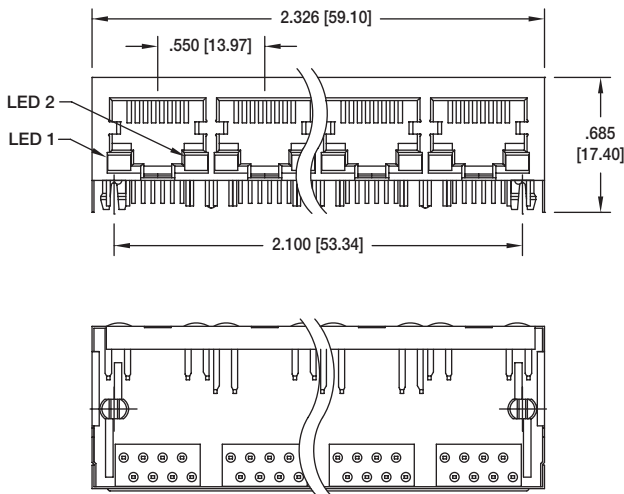


MTJ-88GX1-FSD-LH-PG

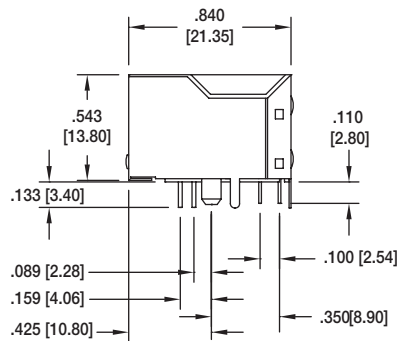


Recommended PCB Layout

TYPE G GANGED WITH LEDs



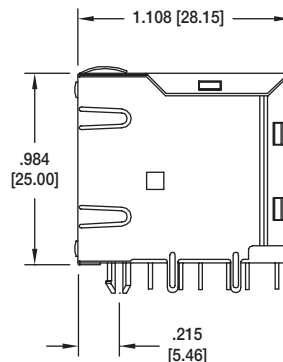
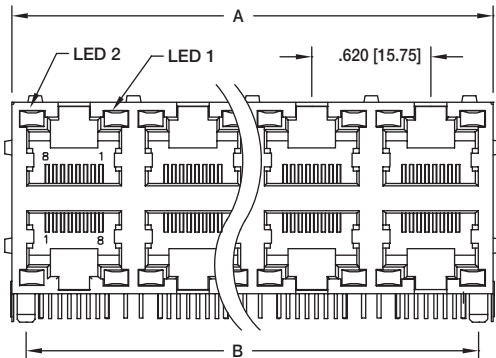
2, 4 & 6 PORTS AVAILABLE



MTJG-4-88GX1-FSD-PG-LG

Ordering Information pg. 34

TYPE J STACKED WITH LEDs

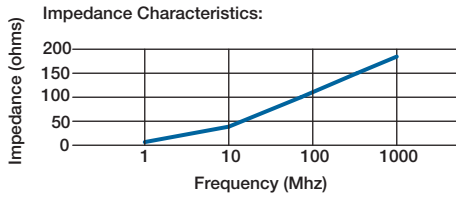


PART NUMBER	PORTS	DIMENSIONS	
		A	B
MTJG-2-88JX1-FSM-LXX	2 X 1	.650 [16.51]	.500 [12.70]
MTJG-4-88JX1-FSM-LXX	2 X 2	1.265 [32.15]	1.120 [28.45]
MTJG-8-88JX1-FSM-LXX	2 X 4	2.50 [63.65]	2.360 [59.95]
MTJG-12-88JX1-FSM-LXX	2 X 6	3.74 [95.15]	3.600 [91.45]

See pg. 43 for additional LED options

FILTERED MODULAR JACKS

Inductive filtered modular jacks improve signal integrity and are available in a variety of styles including tin plated copper shielding with a choice of magnetic transformer or ferrite filter. Adam Tech offers drop in equivalents to all industry standard filtered jacks



Ordering Information pg. 9

TYPE M

EMI FERRITE FILTERED JACK



MTJ-88MX1
Non-Shielded



MTJ-88MX1-FSE
Metal Shielded

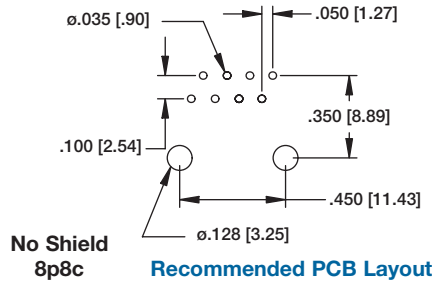
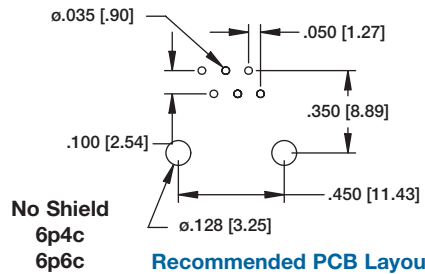
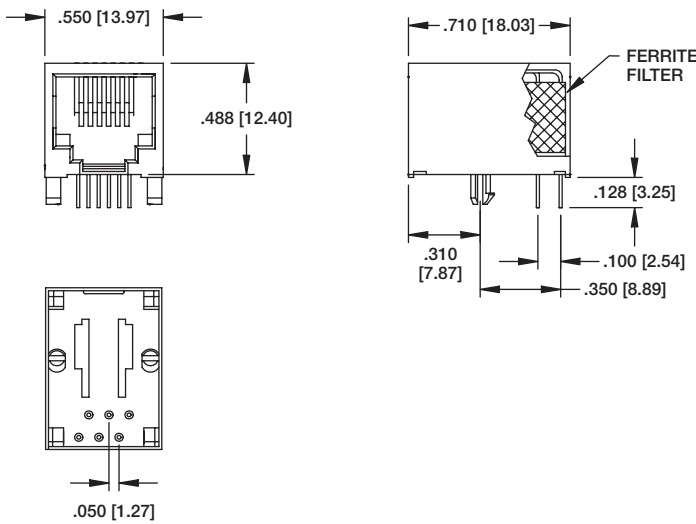


MTJ-88MX1-FSE-PG
Metal Shielded with panel ground tabs

EMI FERRITE FILTERED JACK

TYPE M

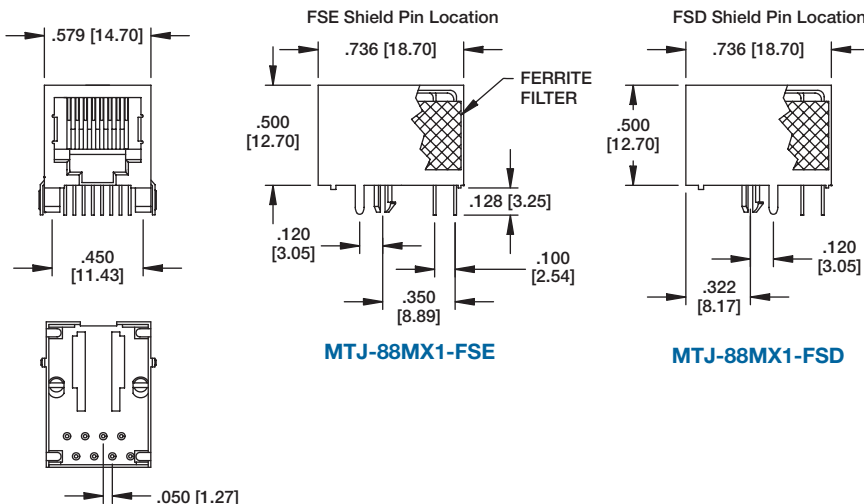
6P6C
6P4C



EMI FERRITE FILTERED & SHIELDED JACK

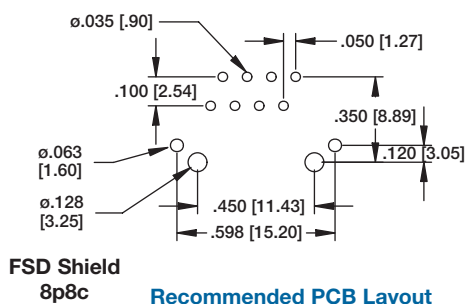
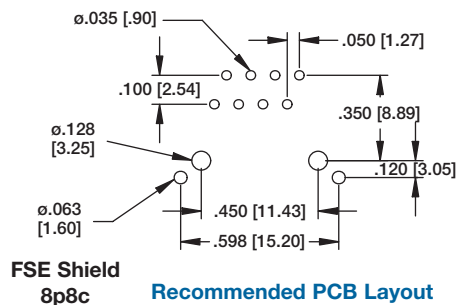
TYPE M

8P8C

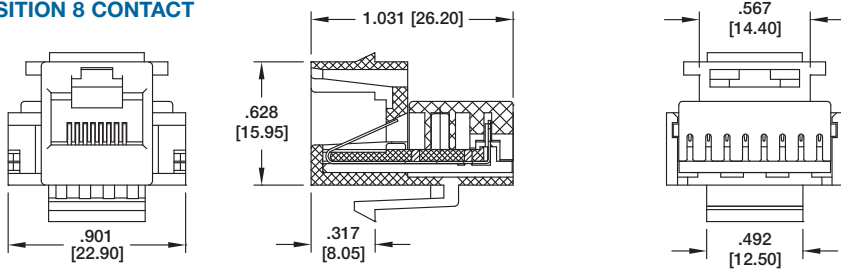


MTJ-88MX1-FSE

MTJ-88MX1-FSD

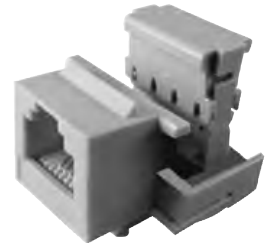
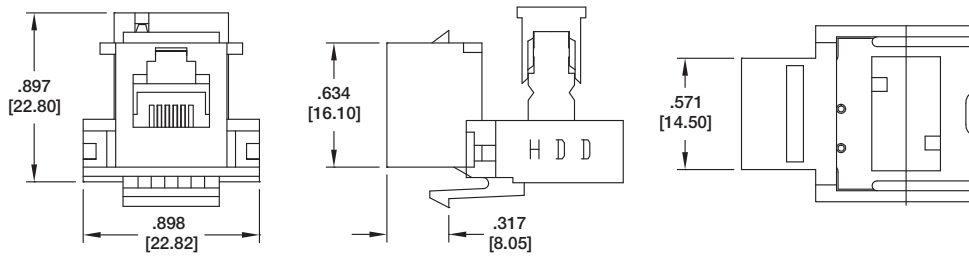


**CAT. 3 KEYSTONE JACK
8 POSITION 8 CONTACT**



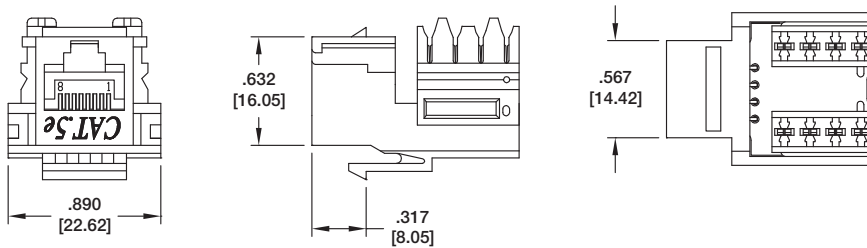
MTJK-88-10

**CAT. 3 KEYSTONE JACK
6 POSITION 4 CONTACT**



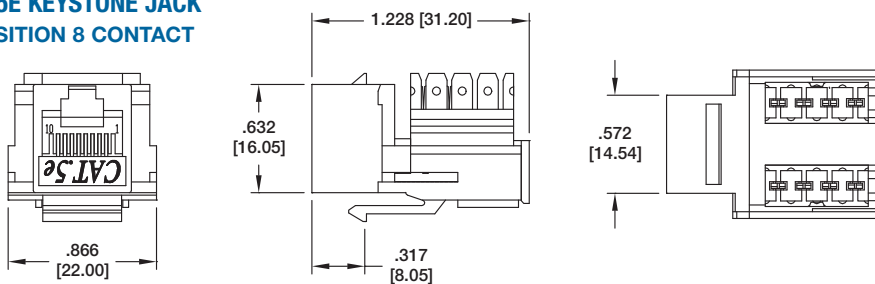
MTJK-64-29

**CAT. 5E KEYSTONE JACK
8 POSITION 8 CONTACT**



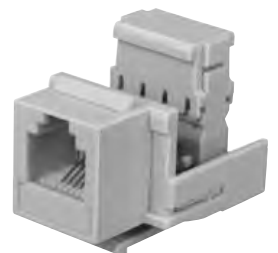
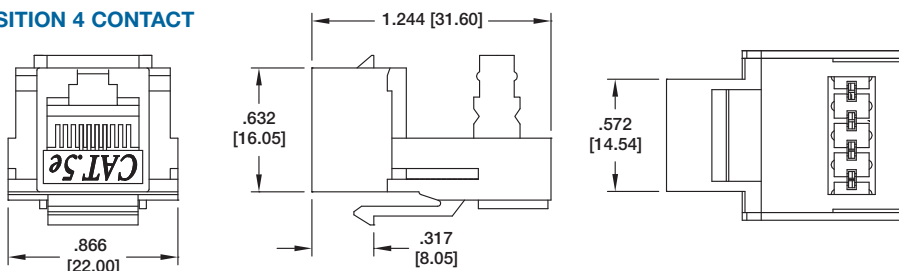
MTJK-88-02-C5E

**CAT. 5E KEYSTONE JACK
8 POSITION 8 CONTACT**



MTJK-88-05-C5E

**CAT. 5E KEYSTONE JACK
8 POSITION 4 CONTACT**



MTJK-84-01-C5E

ORDERING INFORMATION GANGED JACKS WITHOUT LEDs

MTJG	2	64	2	2	1
SERIES INDICATOR MTJG = Ganged Telephone Jack	NO. OF PORTS 2 thru 16	PORT SIZE / POSITIONS FILLED 64 = 6 position, 4 contacts (6P4C) 66 = 6 position, 6 contacts (6P6C) 88 = 8 position, 8 contacts (8P8C)	HOUSING TYPE 2, 2B, 2C, 5, 7H, 7V, AR, C, G, J, N	CONTACT PLATING X = Gold flash 0 = 15 μ in. gold 1 = 30 μ in. gold 2 = 50 μ in. gold	HOUSING COLOR 1 = Black 2 = Medium Gray (Housing Type 7 only)



MTJG-12-88JX1-FSG-PG



MTJG-2-88GX1-FSG

ORDERING INFORMATION GANGED JACKS WITH LEDs

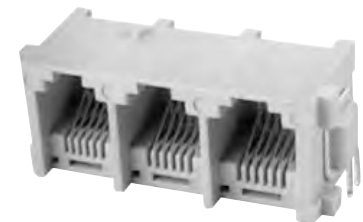
MTJG	2	64	AR	2	1	LD
SERIES INDICATOR MTJG = Ganged Telephone Jack	NO. OF PORTS 2, 4, 6, 8, 12 or 16	PORT SIZE / POSITIONS FILLED 62 = 6 position, 2 contacts (6P2C) 64 = 6 position, 4 contacts (6P4C) 66 = 6 position, 6 contacts (6P6C) 88 = 8 position, 8 contacts (8P8C)	HOUSING TYPE AR, G, J	CONTACT PLATING X = Gold flash 0 = 15 μ in. gold 1 = 30 μ in. gold 2 = 50 μ in. gold	HOUSING COLOR 1 = Black	LED CONFIGURATION See Chart Below



MTJG-4-88ARX1-FSM-PG-LG



MTJG-4-88GX1-FSB



MTJG-3-667HX2

OPTIONS:

Add as suffix to basic part no.

FSX = Full metal shield

PG = Panel ground tabs

SMT = Surface mount tails with Hi-Temp insulation for hi-temp soldering processes up to 260°C

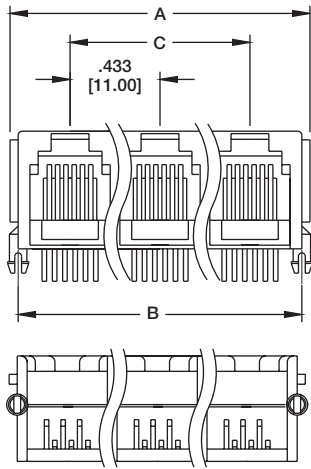
Add suffix to end of P/N:

LED CONFIGURATION		
SUFFIX	LED 1	LED 2
LA	YELLOW	YELLOW
LD	GREEN	GREEN
LG	YELLOW	GREEN
LH	GREEN	YELLOW
LI	ORANGE/ GREEN	ORANGE/ GREEN

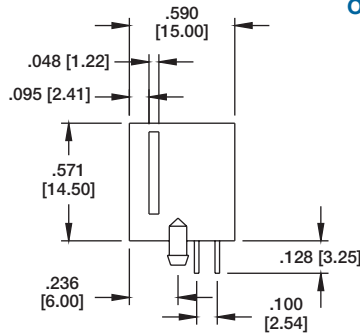


Ordering Information pg. 34

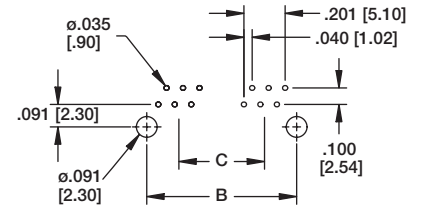
TYPE 2
6P4C
6P6C



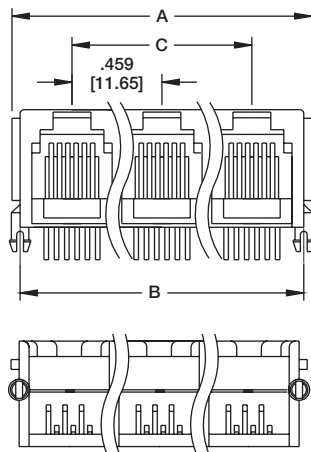
$A = .433 [11.00] \times \text{No. of Ports} + .100 [2.54]$
 $B = .433 [11.00] \times \text{No. of Ports} + .020 [0.50]$
 $C = .433 [11.00] \times \text{No. of Ports} - 1$



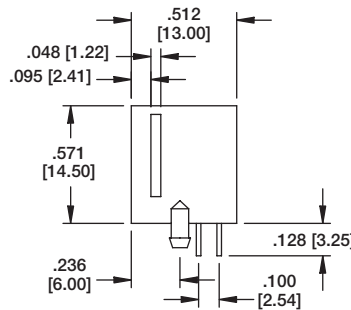
MTJG-2-642X1



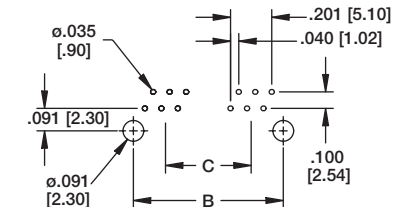
Recommended PCB Layout



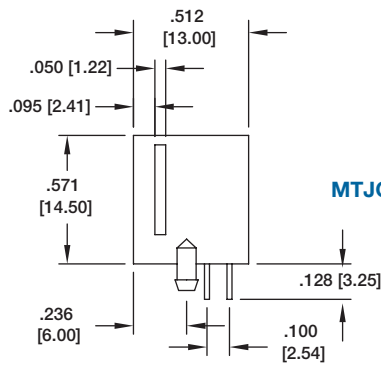
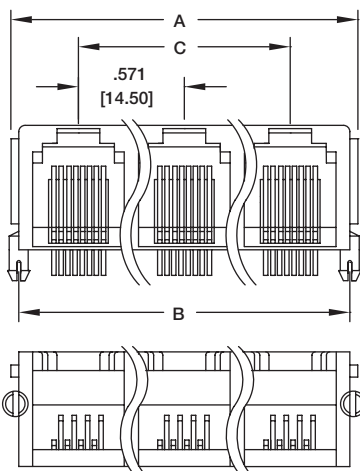
$A = .459 [11.65] \times \text{No. of Ports} + .100 [2.54]$
 $B = .459 [11.65] \times \text{No. of Ports} + .020 [0.50]$
 $C = .459 [11.65] \times \text{No. of Ports} - 1$



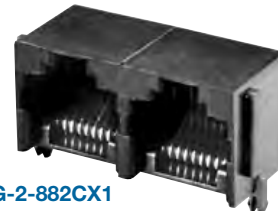
MTJG-2-642BX1



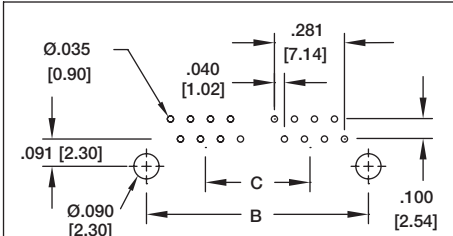
Recommended PCB Layout



$A = .571 [14.50] \times \text{No. of ports} + .122 [3.10]$
 $B = .571 [14.50] \times \text{No. of Ports} + .019 [0.50]$
 $C = .571 [14.50] \times \text{No. of Port} - 1$



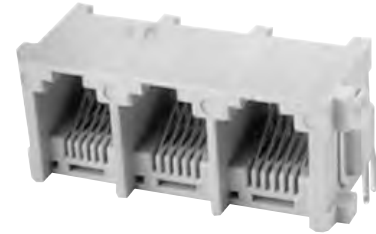
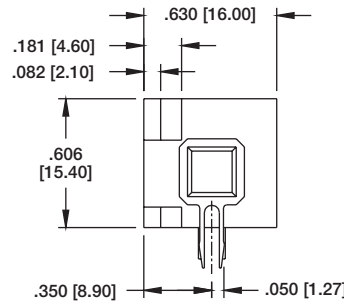
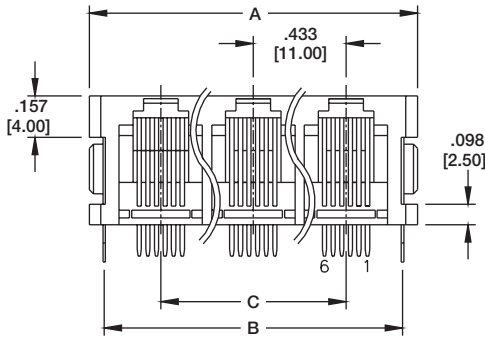
MTJG-2-882CX1



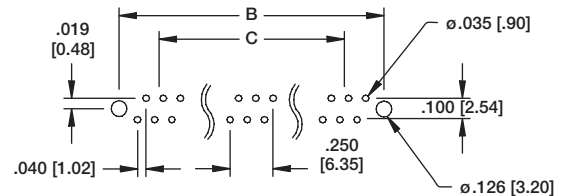
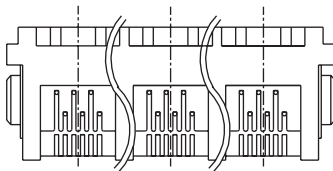
Recommended PCB Layout

Ordering Information pg. 34

TYPE 7H
RIGHT ANGLE ENTRY
 6P4C
 6P6C

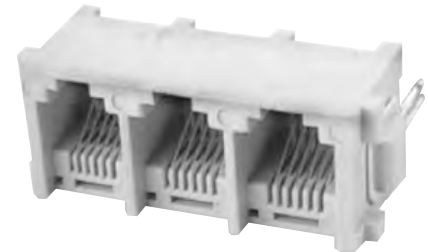
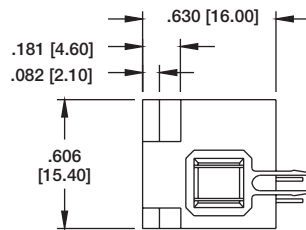
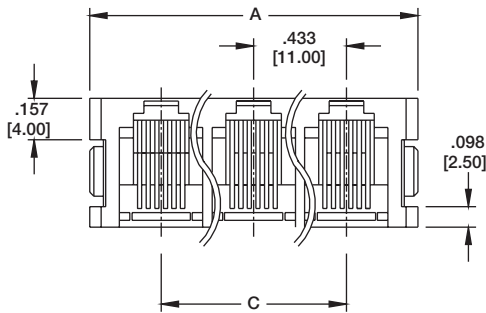


MTJG-3-667HX2

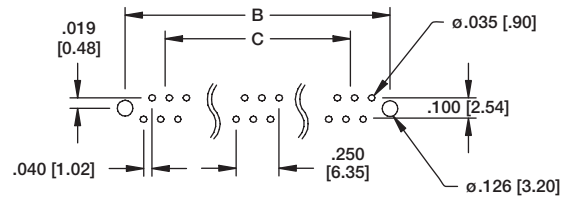
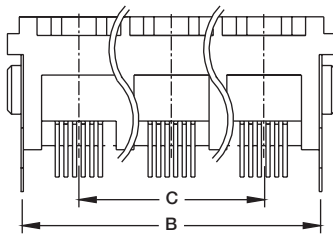


Recommended PCB Layout

TYPE 7V
TOP ENTRY
 6P4C
 6P6C



MTJG-3-667VX2



Recommended PCB Layout

DIMENSION	No of Ports						
	2	3	4	5	6	7	8
A	1.110 [28.20]	1.543 [39.20]	1.976 [50.20]	2.409 [61.20]	2.843 [72.20]	3.275 [83.20]	3.710 [94.20]
B	.992 [25.20]	1.425 [36.20]	1.858 [47.20]	2.291 [58.20]	2.724 [69.20]	3.157 [80.20]	3.590 [91.20]
C	.433 [11.00]	.886 [22.00]	1.299 [33.00]	1.732 [44.00]	2.165 [55.00]	2.598 [66.00]	3.030 [77.00]

$A = .500 [12.70] \times (\text{NO. OF PORTS} - 1) + .519 [13.20]$
 $B = .500 [12.70] \times (\text{NO. OF PORTS} - 1) + .400 [10.16]$
 $C = .500 [12.70] \times \text{NO. OF PORTS} - 1$

Ordering Information pg. 34

Recommended PCB Layout



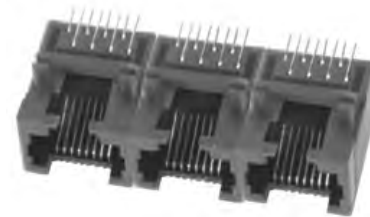
MTJG-3-665X1

**TYPE 5
THRU HOLE
6P4C
6P6C**

$A = .500 [12.70] \times (\text{NO. OF PORTS} - 1) + .519 [13.20]$
 $B = .500 [12.70] \times (\text{NO. OF PORTS} - 1) + .400 [10.16]$
 $C = .500 [12.70] \times \text{NO. OF PORTS} - 1$

Ordering Information pg. 34

Recommended PCB Layout



MTJG-3-885X1-SMT

Available in 6P6C or 8P8C Versions

**TYPE 5
SMT
8P8C**

$A = 1.035 [26.30]$
 $B = .520 [13.20]$
 $C = .921 [23.40]$
 $D = .712 [18.10]$
 $E = .453 [11.50]$
 $F = .311 [7.90]$
 $G = .350 [8.89]$
 $H = .100 [2.54]$

ADD -SP TO END OF PART NO. FOR SPLIT ROUND PLASTIC PEG OPTION

Ordering Information pg. 34

Recommended PCB Layout

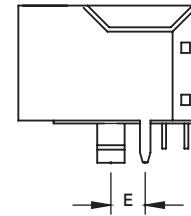
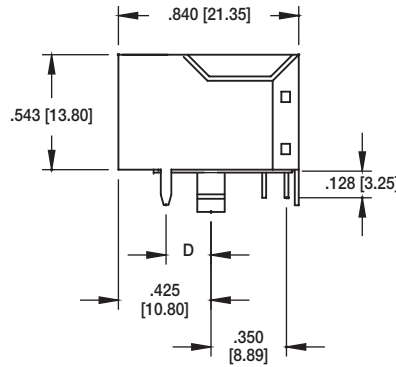
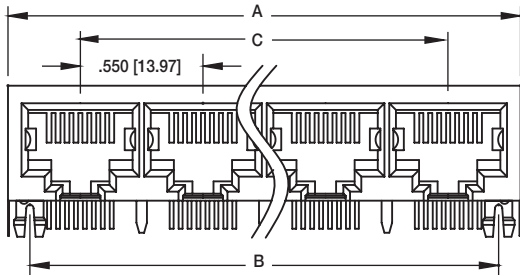


MTJG-2-66nx1

**TYPE N
METAL PEG
6P4C
6P6C**

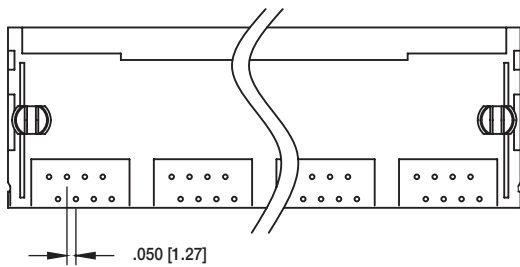
Ordering Information pg. 34

TYPE G
GANGED
8P8C



"E" DIM.
FSD = .120 [3.05]
FSR = .144 [3.65]

"D" DIM.
FSA = .170 [4.32]
FSB = .144 [3.65]
FSG = .180 [4.57]
FSE = .120 [3.05]



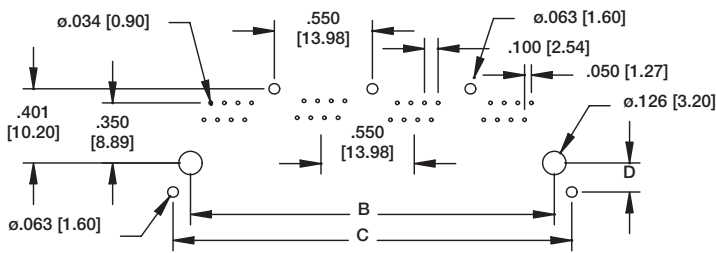
A = .550 [13.97] X (NO. OF PORTS - 1) + .679 [17.27]
B = .550 [13.97] X (NO. OF PORTS - 1) + .450 [11.43]
C = .550 [13.97] X NO. OF PORTS - 1



MTJG-4-88GX1-FSB

Recommended PCB Layout for shield ground pin locations specified as FSA, FSB, FSG & FSE

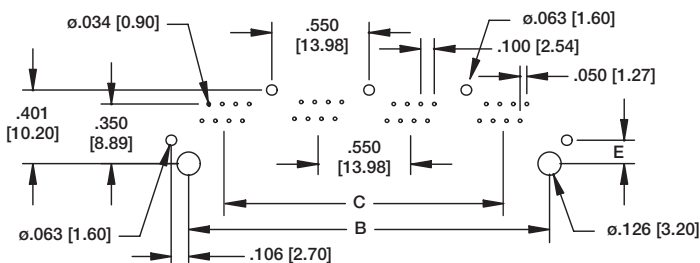
"D" DIM.
FSA = .170 [4.32] FSE = .120 [3.05]
FSB = .144 [3.65] FSG = .180 [4.57]



MTJG-4-88GX1-FSB-PG

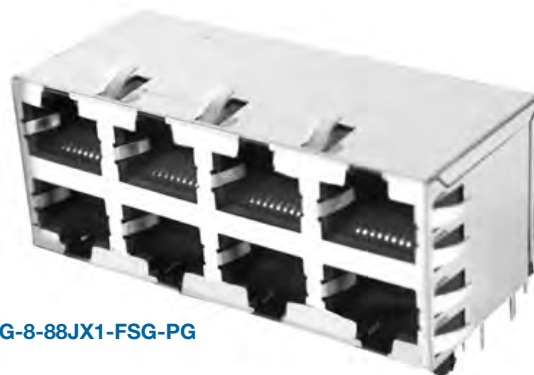
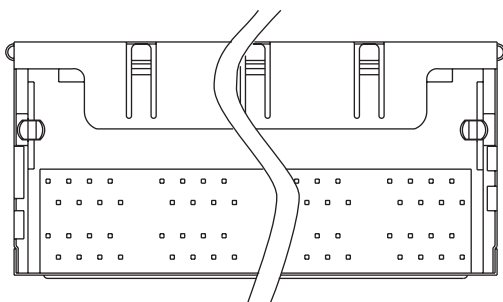
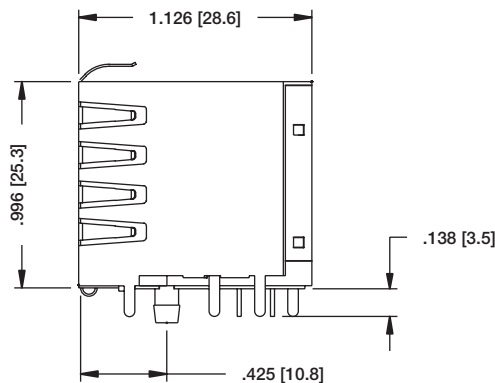
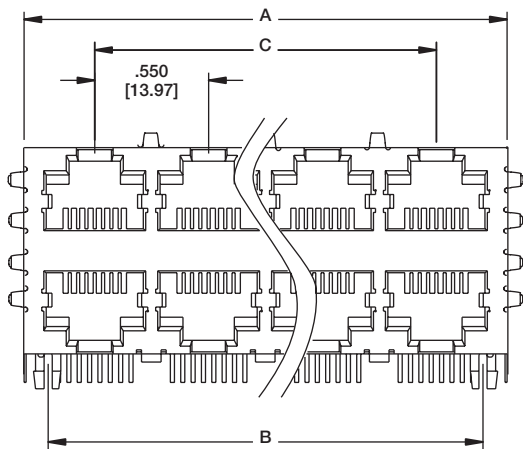
Recommended PCB Layout for shield ground pin locations specified as FSD & FSR

"E" DIM.
FSD = .120 [3.05]
FSR = .144 [3.65]

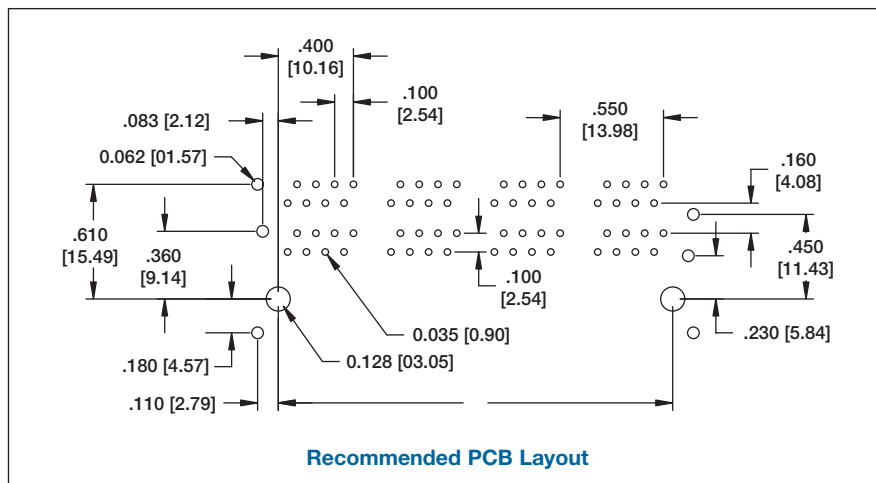


Ordering Information pg. 34

TYPE J
8P8C



MTJG-8-88JX1-FSG-PG



Recommended PCB Layout

PART NUMBER	PORTS	DIMENSIONS		
		A	B	C
MTJG-2-88JX1-FSG-PG	2 X 1	.679 [17.25]	.450 [11.43]	—
MTJG-4-88JX1-FSG-PG	2 X 2	1.230 [31.25]	1.00 [25.40]	.550 [13.97]
MTJG-6-88JX1-FSG-PG	2 X 3	1.780 [45.21]	1.549 [39.34]	1.100 [27.94]

PART NUMBER	PORTS	DIMENSIONS		
		A	B	C
MTJG-8-88JX1-FSG-PG	2 X 4	2.33 [59.18]	2.100 [53.34]	1.650 [41.91]
MTJG-12-88JX1-FSG-PG	2 X 6	3.43 [87.10]	3.200 [81.28]	2.750 [69.85]
MTJG-16-88JX1-FSG-PG	2 X 8	4.537 [115.25]	4.30 [109.22]	3.850 [97.79]

INTRODUCTION:

Adam Tech MTJ series RJ-45 connectors with integrated magnetics are designed to support Base 10, 100 and 1000-T applications such as hubs, routers, ADSL modems, and ATM transmission equipment. The integrated magnetics allows the design engineer to save PC board real-estate and lower the total part count per system. This series meets all applicable specifications for CAT 5, 5e, 6 and IEEE 802.3. The USB model meets all applicable USB 2.0 specifications. All configurations are available with optional LED's.

FEATURES:

Single, stacked and ganged configurations available All products have a full metal shield to guard against electromagnetic interference. Hi-Temp option available All products are fully lead free and RoHS compliant

MATING PLUGS:

Adam Tech modular telephone plugs and all industry standard telephone plugs.

SPECIFICATIONS:

Material:

Insulator: PBT, glass filled, rated UL94V-0
 Insulator Color: Black
 Contacts: Phosphor Bronze or Brass
 Shield: Copper Alloy, Nickel or Tin plated

Contact Plating:

Gold over Nickel underplate on contact area, Tin over Copper underplate on solder tails.

ELECTRICAL:

Operating Voltage: 150V AC
 Current Rating: 1.5 Amps Max.
 Contact Resistance: 20 mΩ Max.
 Insulation Resistance: 500 MΩ Min.
 Dielectric Withstanding Voltage: 1500V AC for 1 Minute
 DC resistance: 1.2 Ohms Max.
 Interwinding capacitance: 35pF @ 1MHz
 Insertion loss: 100KHz to 80MHz = -1.1dB Min.
 Return loss: 1MHz to 30MHz = -18dB Min.
 30MHZ to 80MHz = -12dB Min.
 Rise time: 30nS Max.
 Cross talk: 1MHz to 100MHz = 40dB TYP.
 Common to Common mode Attenuation: 35dB TYP.

MECHANICAL:

Insertion force: 8 Contacts: 22.5N
 10 Contacts: 24.5N

TEMPERATURE RATING:

Operation Temperature: -40°C ~ +85°C

PACKAGING:

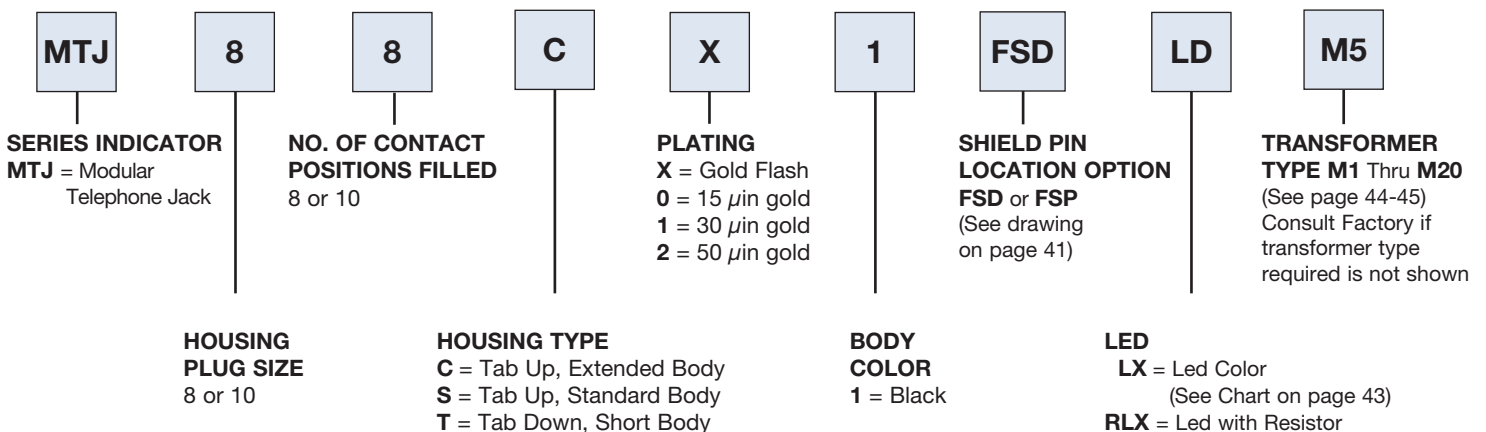
Anti-ESD plastic trays or tubes

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224049



MAGNETICS TELEPHONE JACK ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number

PG = Panel ground tabs

LED 1 OPTION
LED 2 OPTION

8
1

.653 [16.60]

.200 [5.08]
.100 [2.54]

1.283 [32.60]

.531 [13.50]

.137 [3.50]

.423 [10.75]
.796 [20.22]

A

MTJ-88CX1-FSP-PG-LG-M3

TYPE C
TAB UP & TOP LEDs,
EXTENDED BODY

.100 [2.54]
.100 [2.54]

.280 [7.12]

.080 [2.03]

.696 [17.68]

.125 [3.18]

.500 [12.70]

.635 [16.13]

ø.035 [0.89]
ø.128 [3.25]
ø.062 [1.57]

Recommended PCB Layout
FSP Option Shown

AVAILABLE WITH MAGNETIC TRANSFORMERS: M1, M3, M4, M5, M6, M7, M8, M9, M10, M11, M12, M13, M16 & M20.

LED 1 OPTION
LED 2 OPTION

8
1

.637 [16.20]

.450 [11.43]

.290 [7.37]
.100 [2.54]

.996 [25.30]

.531 [13.50]

.137 [3.50]

.423 [10.75]

A

MTJ-88SX1-FSP-PG-LG-M7

TYPE S
TAB UP & TOP LEDs,
STANDARD BODY

.523 [13.28]
.323 [5.20]

.450 [11.43]

.610 [15.50]

.350 [8.89]

ø.035 [0.90]
ø.128 [3.25]
ø.063 [1.60]

ø.040 [1.02]
ø.290 [7.37]

Recommended PCB Layout
FSP Option Shown

AVAILABLE WITH MAGNETIC TRANSFORMERS: M1, M3, M4, M5, M6, M7, M9, M10, M11, M12 & M13. See pgs. 44-45

LED 1 OPTION
LED 2 OPTION

11
8

.626 [15.90]

.450 [11.43]

.100 [2.54]

.840 [21.35]

.531 [13.50]

.137 [3.50]

.423 [10.75]

A

MTJ-88TX1-FSP-PG-LG-M5

Tab Up Type also available

TYPE T
TAB DOWN & BOTTOM LEDs,
SHORT BODY

.450 [11.43]
.050 [1.27]

.450 [11.43]

.610 [15.50]

.350 [8.89]

.159 [4.06]

ø.035 [0.90]
ø.128 [3.25]
ø.063 [1.60]

.323 [5.20]
.523 [13.28]

ø.040 [1.02]

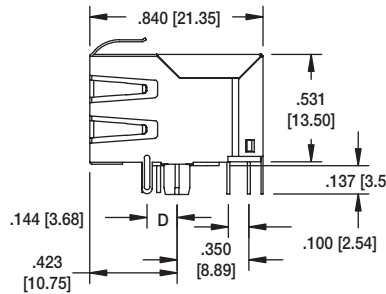
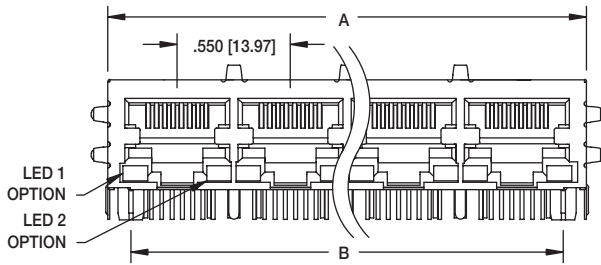
Recommended PCB Layout
FSP Option Shown

AVAILABLE WITH MAGNETIC TRANSFORMERS: M1, M3, M4, M5, M6, M7, M9, M10, M11, M12 & M13. See pgs. 44-45

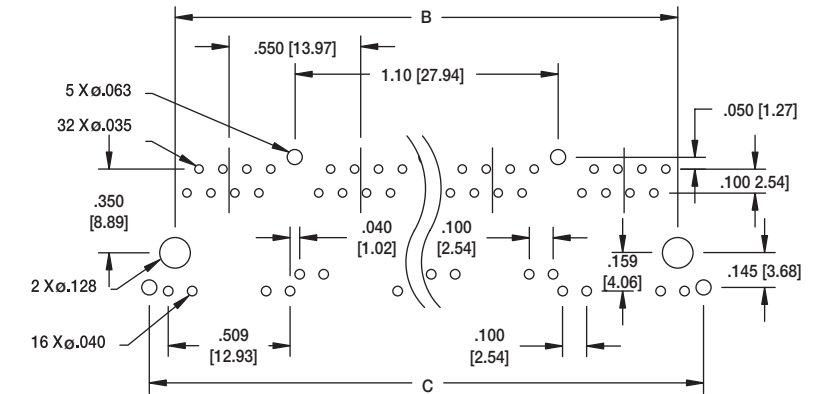
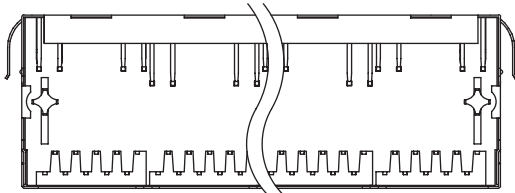
Ordering Information pg. 43

TYPE T

TAB DOWN, SHORT BODY
MAGNETICS & LEDs
2, 4 & 5 PORTS GANGED



"D" DIM.
FSA = .170 [4.32]
FSB = .144 [3.65]
FSG = .180 [4.57]
FSE = .120 [3.05]



Recommended PCB Layout

MTJG-4-88TX1-FSB-PG

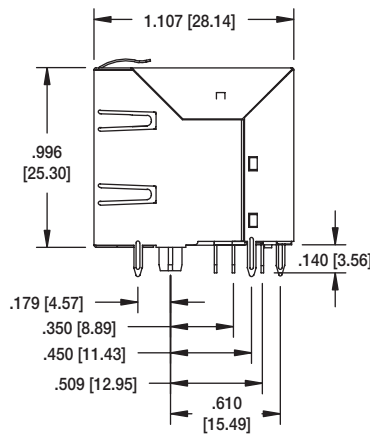
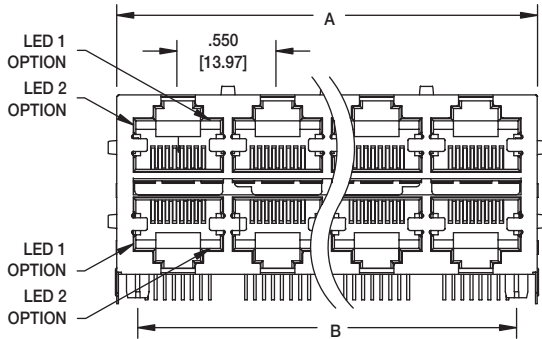
Drawing shown with metal shield, panel ground tabs, LEDs and magnetics option

A = .550 [13.97] X (NO OF PORTS - 1) + .679 [17.27]
B = .550 [13.97] X (NO OF PORTS - 1) + .450 [11.43]

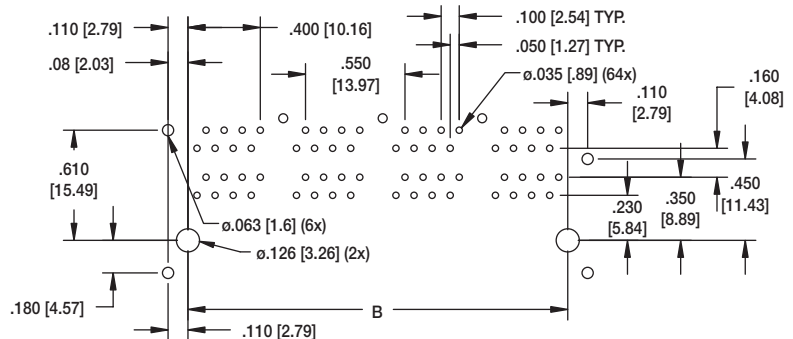
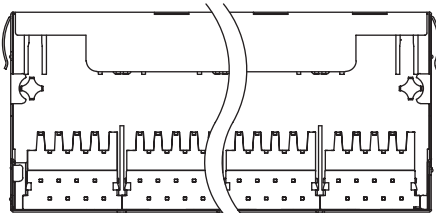
AVAILABLE WITH MAGNETIC TRANSFORMERS: M1, M3, M4, M5, M6, M7, M9, M10, M11, M12 & M13. See pgs. 44-45

TYPE J

STACKED



DIMENSIONS		
PORTS	A	B
2 X 1	.677 [17.20]	.450 [11.43]
2 X 2	1.227 [31.17]	1.00 [25.40]
2 X 4	2.331 [59.22]	2.100 [53.34]
2 X 5	2.876 [73.07]	2.650 [67.31]
2 X 6	3.426 [87.04]	3.200 [81.28]
2 X 8	4.527 [115.00]	4.300 [109.22]

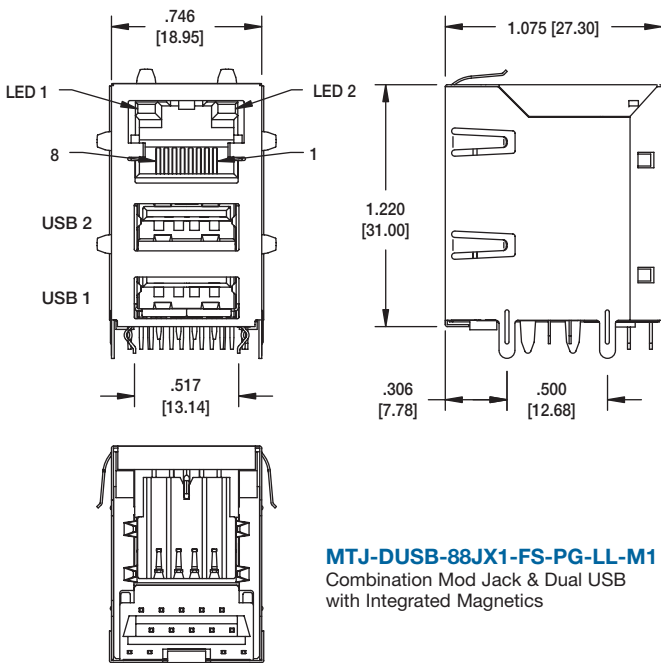


Recommended PCB Layout

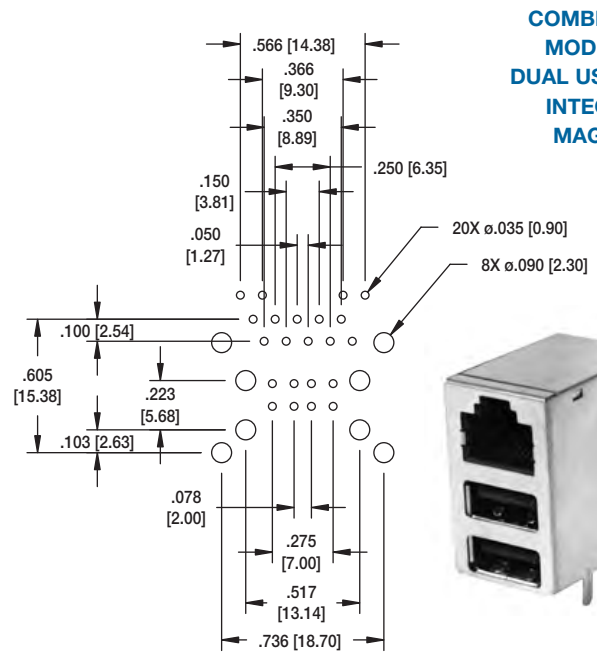
MTJG-8-88JX1-FSE-LD-M1

Drawing shown with metal shield, panel ground tabs & LEDs.

AVAILABLE WITH MAGNETIC TRANSFORMERS: M1, M3, M4, M5, M6, M7, M9, M10, M11, M12 & M13. See pgs. 44-45



MTJ-DUSB-88JX1-FS-PG-LL-M1
Combination Mod Jack & Dual USB
with Integrated Magnetics



Recommended PCB Layout

**COMBINATION
MOD JACK &
DUAL USB WITH
INTEGRATED
MAGNETICS**



LED CONFIGURATION (Add suffix to end of part no.)		
SUFFIX	LED 1	LED 2
LA	YELLOW	YELLOW
LD	GREEN	GREEN
LG	YELLOW	GREEN
LH	GREEN	YELLOW
LI	ORANGE/GREEN	ORANGE/GREEN
LP	YELLOW/GREEN	YELLOW/GREEN
LQ	YELLOW/GREEN	—
L11	RED	GREEN

OTHER LED COLOR
COMBINATIONS AVAILABLE

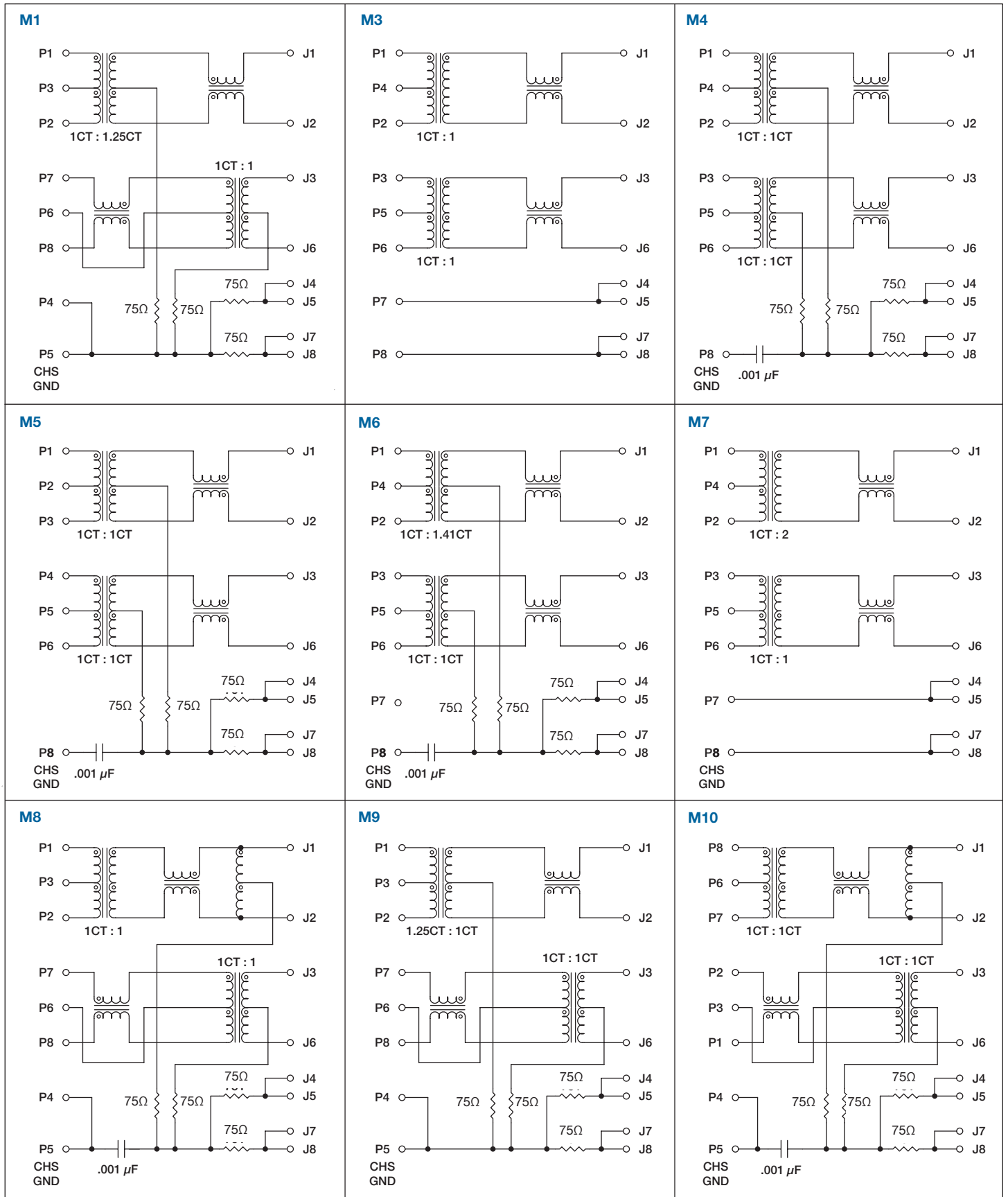
LED SPECIFICATION			
STANDARD LED	WAVE LENGTH	FORWARD VOLT / CURRENT	TYP
GREEN	565 nm	5.5V / 20mA	5.0V
YELLOW	590 nm	5.5V / 20mA	5.0V
ORANGE	610 nm	5.5V / 20mA	5.0V
RED	637 nm	5.5V / 20mA	5.0V

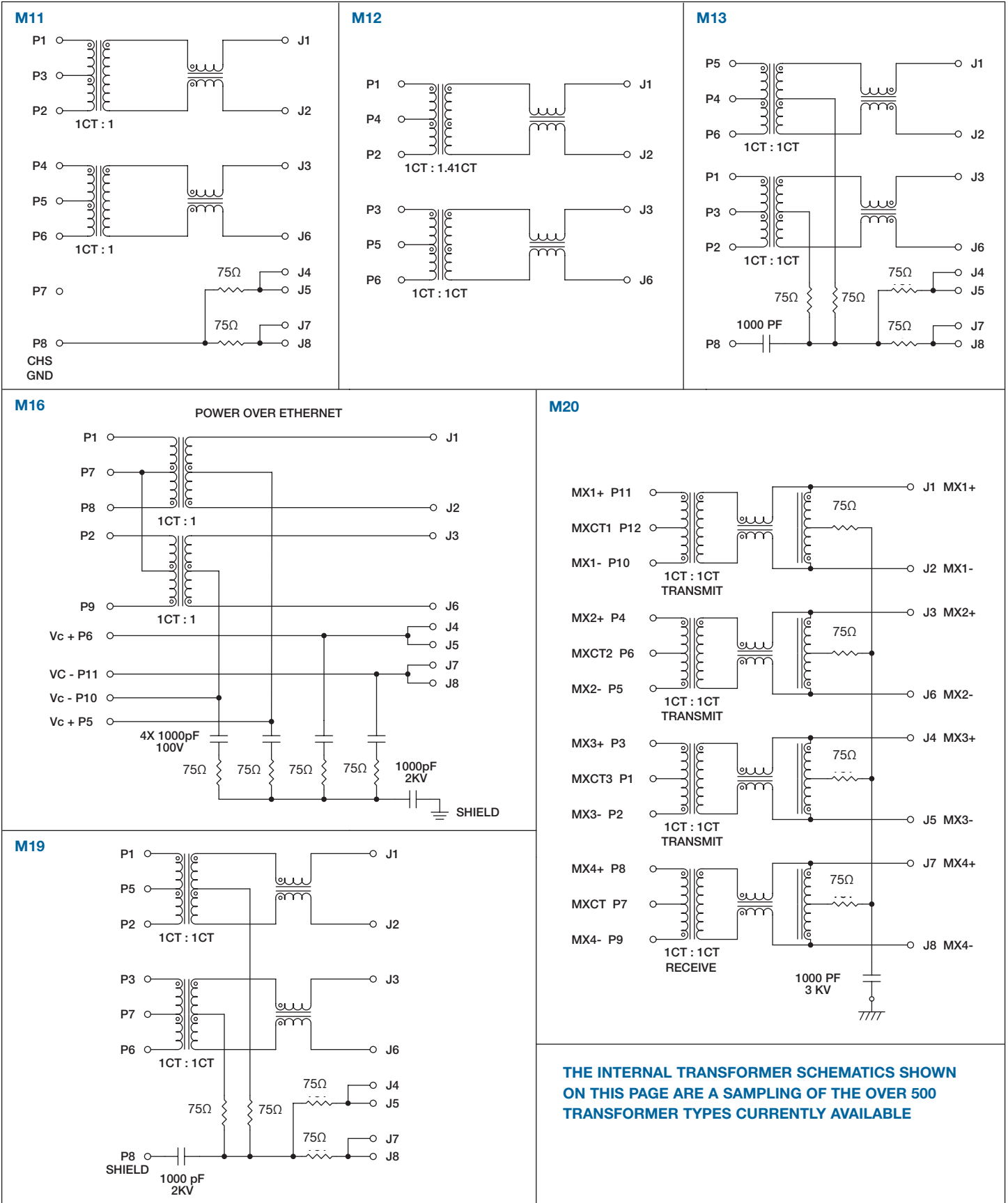
AVAILABLE WITH MAGNETIC
TRANSFORMERS M1, M3, M4,
M5, M6, M7, M8, M9, M10, M11,
M12, M13, M16 & M20
See Pgs 44-45:

ORDERING INFORMATION FOR JACKS WITH INTEGRATED MAGNETICS & LEDs

MTJG	4	8	8	T	X	1	FSD	LD	M5
SERIES INDICATOR MTJG =Magnetics Ganged Jack	NO. OF PORTS 2 thru 8	HOUSING PLUG SIZE 8 or 10	NO. OF CONTACT POSITIONS FILLED 8 or 10	HOUSING TYPE T or J	PLATING X = Gold Flash 0 = 15 μin gold 1 = 30 μin gold 2 = 50 μin gold	BODY COLOR 1 = Black	SHIELD PIN LOCATION FSD thru FSH (See drawing on page 40)	LED LX = Led Color RLX = Led with Resistor	TRANSFORMER M1 Thru M20 (See page 44-45) Consult Factory for transformer types not shown

OPTIONS:
Add designator(s) to end of part number
PG = Panel ground tabs





INTRODUCTION:

Adam Tech MTJP Series Wire Leaded Handset and Panel Jacks are conveniently prepared with wire leads ready for final assembly. This series has a multitude of housing shapes to fit many specific applications. They are offered in 4, 6 & 8 positions with choice of Stripped and Tinned leads or leads with Spade Terminals, Adam Tech Jacks are UL approved and meet all required FCC rules and regulations.

FEATURES:

- UL approved
- FCC compliant to No. 47 CFR part 68
- Prepared for Final Assembly
- 4P, 6P and 8P versions
- Custom Jacks available

MATING PLUGS:

All industry standard line cords manufactured with telephone plugs

SPECIFICATIONS:

Material:

- Insulator: ABS, (Nylon 66 optional), rated UL94V-0
- Insulator Colors: Medium gray or black
- Contacts: Phosphor Bronze
- Wires: 26 Awg, UL-1061, 80°C, VW-1, 300V.

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

- Operating voltage: 150V AC max.
- Current rating: 1.5 Amps max.
- Contact resistance: 20 mΩ max. initial
- Insulation resistance: 500 MΩ min.
- Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

- Insertion force: 4 Contacts: 500g, 6 contacts 750g
- 8 contacts: 900g, 10 contacts: 1000g
- Durability: 500 Cycles min.

Temperature Rating:

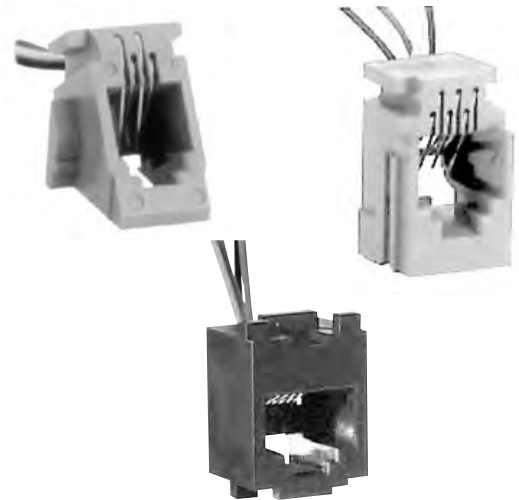
Operating temperature: -40°C to +85°C

PACKAGING:

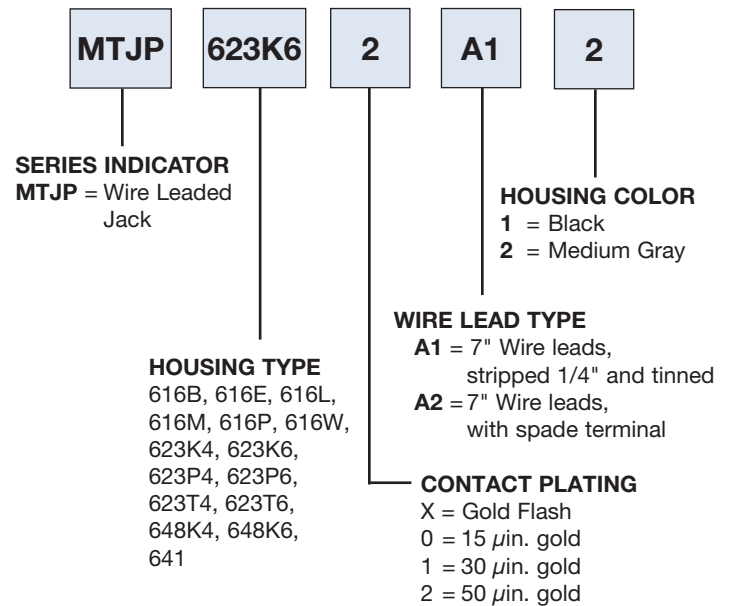
Anti-ESD plastic bags

APPROVALS AND CERTIFICATIONS:

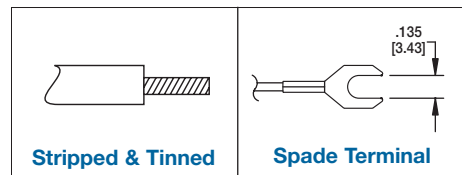
UL Recognized File no. E224049



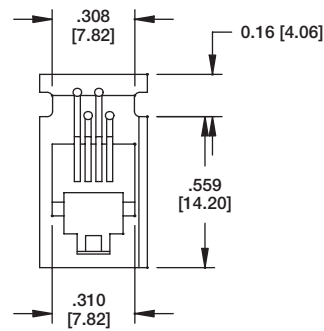
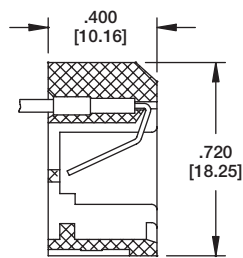
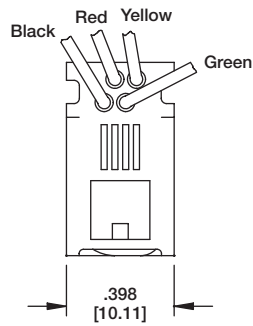
**ORDERING INFORMATION
WIRE LEADED JACKS**



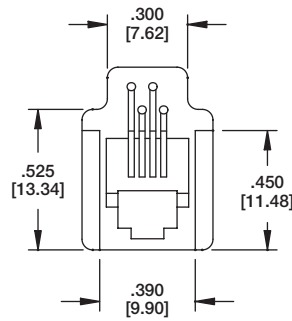
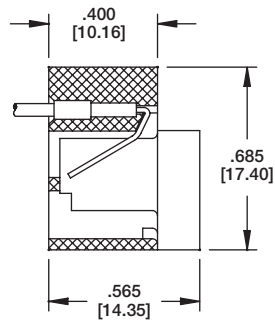
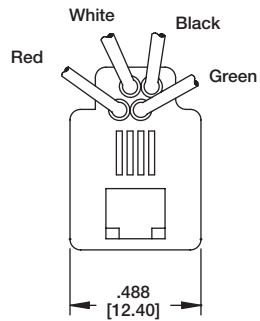
Wire Lead Options



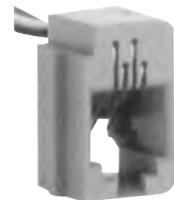
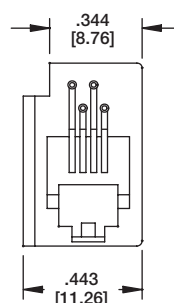
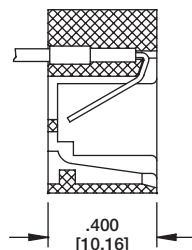
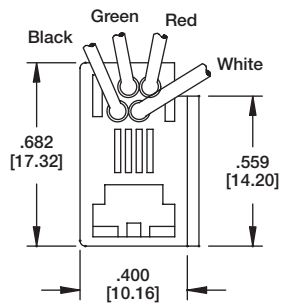
MTJP-616L



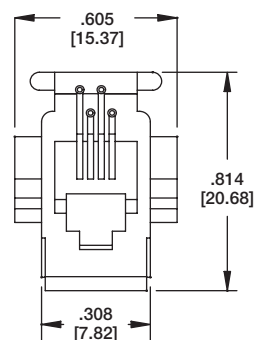
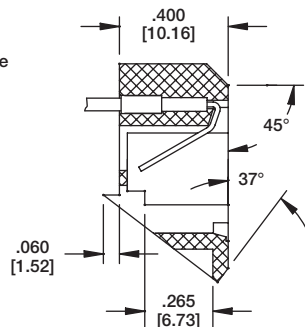
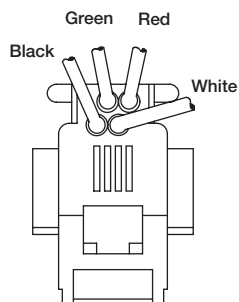
MTJP-616M



MTJP-616E

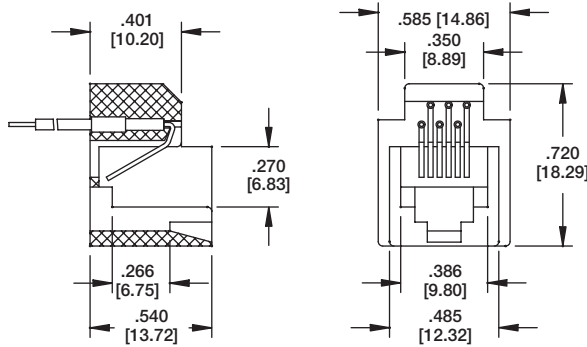
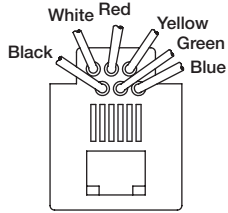


MTJP-616W



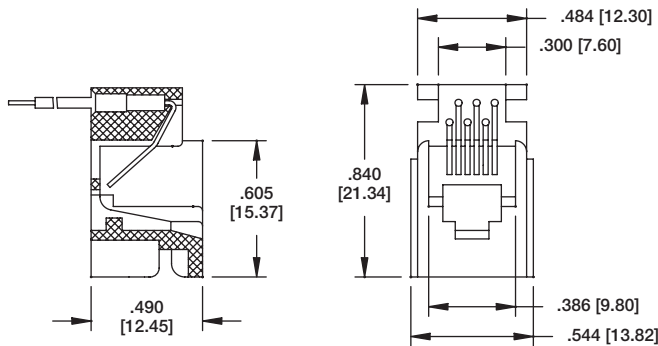
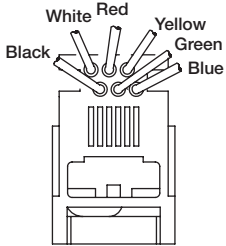
MTJP-623K4

MTJP-623K6



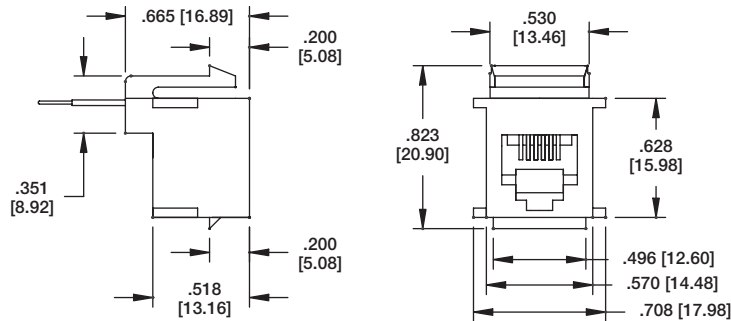
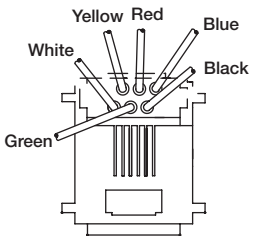
MTJP-623P4

MTJP-623P6



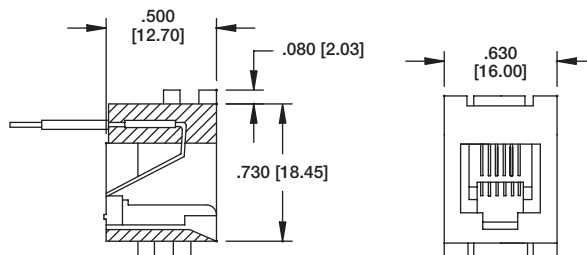
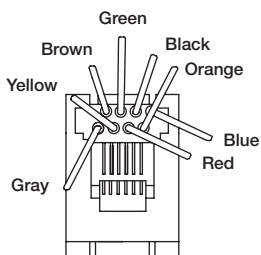
MTJP-648K4

MTJP-648K6



MTJP-641

MTJP-641



ORDERING INFORMATION

MTJC

SERIES INDICATOR
MTJC = Modular Jack Coupler

8

HOUSING SIZE = 8

6

POSITIONS FILLED
 4, 6, or 8

0

PLATING
X = Gold Flash
0 = 15 μ in gold
1 = 30 μ in gold
2 = 50 μ in gold

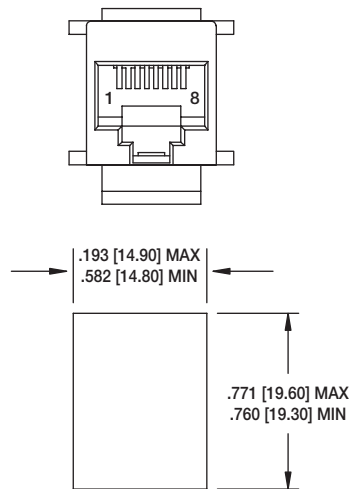
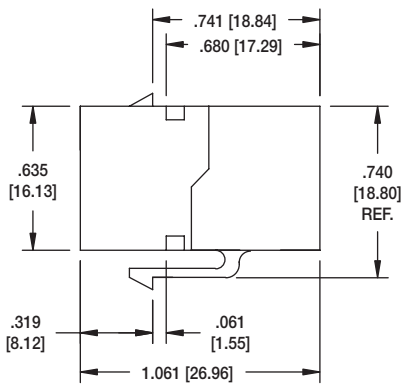
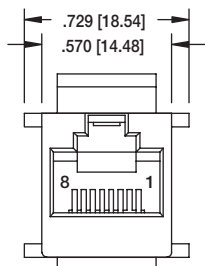
B

INSULATOR COLOR
B = Black **Y** = Yellow
W = White **R** = Red
IV = Ivory **G** = Green
GY = Gray **BL** = Blue

OPTIONS:

Add designator to end of part number

S = Shielded



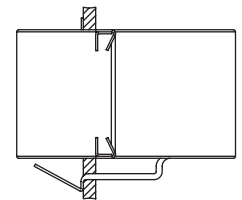
MTJC-88-XB
PLASTIC HOUSING



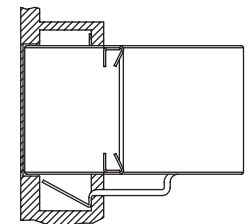
MTJC-88XIV

RECOMMENDED PANEL CUT-OUT
PANEL THICKNESS .062 [1.57]

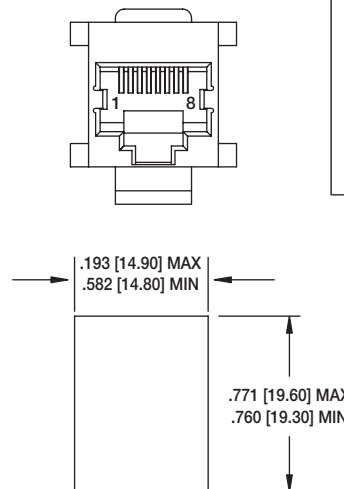
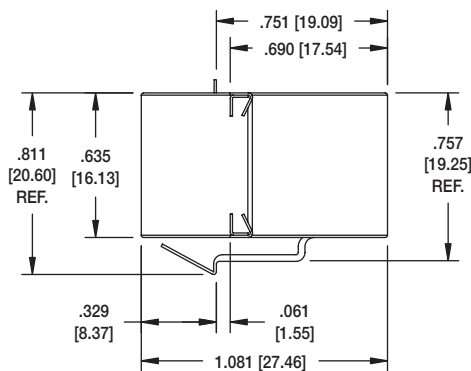
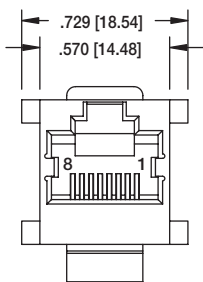
MTJC Couplers can be used in either of the following mounting applications



Single Wall Plate Mounting



Double Wall Plate Mounting



MTJC-88-XBS
METAL SHIELDED



MTJC-88XB-S

RECOMMENDED PANEL CUT-OUT
PANEL THICKNESS .062 [1.57]

INTRODUCTION:

Adam Tech MTP series Modular Plugs are manufactured to terminate flat oval or round cord to REA and Cat. 5 EIA/TIA specifications. Our double strain relief design, molded in polycarbonate, is manufactured with contacts pre-loaded in a variety of sizes and options including shielding and specific contacts for flat or round cable. Adam Tech is a major supplier of telephone line cords to the telecommunications industry.

FEATURES:

- Preassembled Contacts
- REA Compliant Terminations
- Cat. 5 and 5E available
- Contacts for Flat or Round wire
- Short or Long body choices
- Shielded versions

MATING TELEPHONE JACKS:

Adam Tech modular jack series and all industry standard telephone Jacks.

SPECIFICATIONS:

Material:

- Insulator: Polycarbonate, rated UL94V-0
- Insulator Color: Clear, (Blue optional)
- Contacts: Phosphor Bronze

Contact Plating:

Gold over nickel underplate.

Electrical:

- Operating voltage: 150V AC max.
- Current rating: 1.5 Amps max.
- Contact resistance: 20 mΩ max. initial
- Insulation resistance: 500 MΩ min.
- Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

- Cable to plug tensile strength: 7.71 Kgs (17 lbs) min.
- Durability: 250 Cycles min.
- Wire range: 26 to 28 Awg

Temperature Rating:

Operating temperature: -40°C to +70°C

PACKAGING:

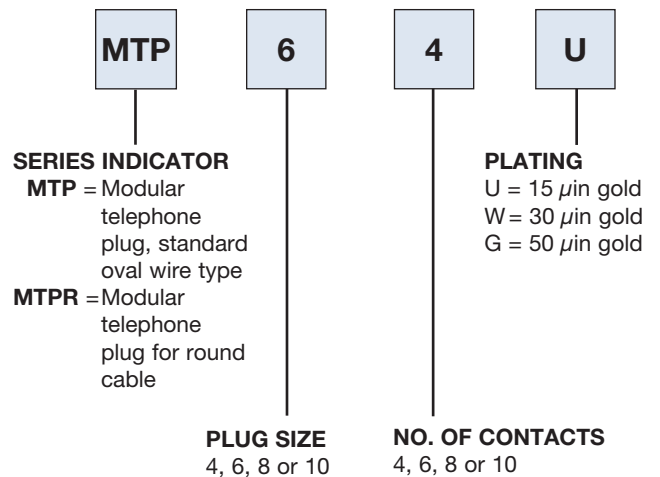
Anti-ESD plastic bags

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224049



ORDERING INFORMATION



OPTIONS:

- Add designator(s) to end of part number
- K** = Molded in key (Plug size 8 & 10 only)
- S** = Solid wire contacts
- EMI** = Metal shielded type (Plug size 8 or 10 only)
- OL** = Offset Latch (Plug size 6 only)
- BU** = Clear Blue insulator color

**MTP-44
4P4C PLUG**

MTP-44-G

**MTP-66
6P6C PLUG**

**MTP-66-G
MTP-64-G**

**MTP-88
8P8C PLUG**

MTP-88-G

Contact Options

Standard Stranded Wire Contact **Optional Solid Wire Contact**

Plug Options

MTP Series Oval Wire Opening **MTPR Series Round Wire Opening**

MTP Series Offset Latch Option **MTPR Series Offset Latch Option**

Plug with Metal EMI Shield Option

MTP-88-G-EMI

**MTP-1010
10P10C
PLUG**

MTP-1010-G

INTRODUCTION:

Adam Tech Small Form Factor connectors and cages are a popular interface for telecommunications and data communications applications. Our 20 position surface mount connector interfaces to both fiber optic and copper networking modules. Our cages are manufactured in single port and multiport configurations. All of our cages are available in both press fit and through hole mounting.

FEATURES:

- Industry standard compatibility
- Alignment posts on SMT connector allow for PC board stability
- Standoffs allow for easy board cleaning
- Single, stacked or ganged cages
- Cages have multiple ground points for EMI shielding

SPECIFICATIONS:

Material:

- SMT Connector:
- Insulator: High temperature thermoplastic
- Contacts: Phosphor Bronze
- Plating: Gold over nickel underplate
- Cage: Nickel plated copper alloy

Electrical:

- SMT Connector:
- Operating voltage: 100VAC max
- Current rating: 1 Amp max
- Contact resistance: 40 ohms max
- Insulation resistance: 1000 Mohms min
- Dielectric withstanding voltage: 500 VAC for 1 minute

Temperature rating:

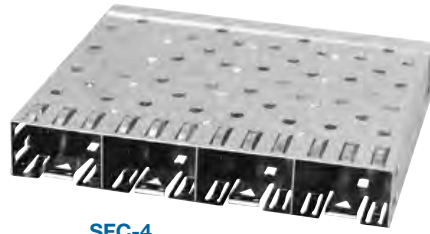
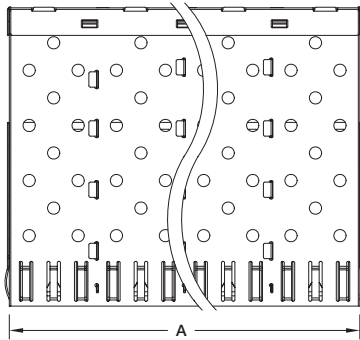
- Operating temperature: -40°C to +85°C
- Soldering temperature: 260°C for 5 seconds

APPROVALS AND CERTIFICATIONS:

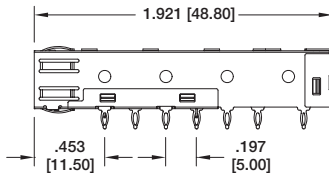
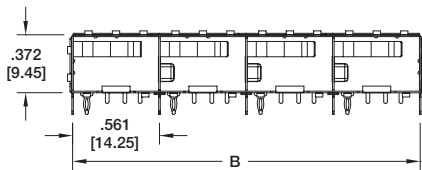
UL Recognized File no. E224053



SFC CAGE (MULTI PORT)

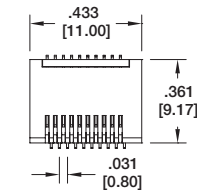


SFC-4

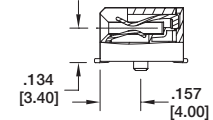
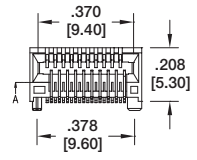


SFC-1

SFF CONNECTOR

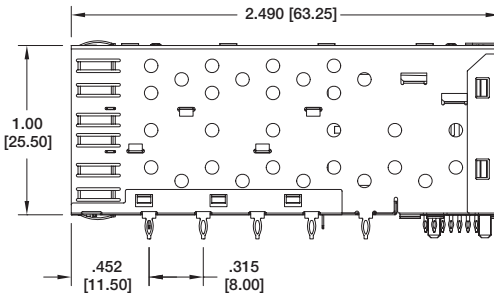
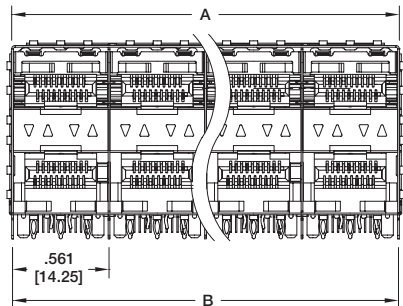


SFF-20-SG



DIMENSIONS			
PART NO.	PORTS	A	B
SFC-1	1	.571 [14.50]	.561 [14.25]
SFC-2	2	1.132 [28.75]	1.122 [28.50]
SFC-4	4	2.254 [57.25]	2.244 [57.00]
SFC-6	6	3.376 [85.75]	3.366 [85.50]
SFC-8	8	4.498 [114.25]	4.488 [114.00]

SFCJ CONNECTOR WITH CAGE (STACKED)



DIMENSIONS		
PORTS	A	B
2 X 1	.571 [14.50]	.561 [14.25]
2 X 2	1.132 [28.75]	1.122 [28.50]
2 X 4	2.254 [57.25]	2.244 [57.00]
2 X 6	3.376 [85.75]	3.366 [85.50]

CONFIGURATIONS				
	2 X 1	2 X 2	2 X 4	2 X 6
PART NO.	SFCJ-2	SFCJ-4	SFCJ-8	SFCJ-12

INTRODUCTION:

Adam Tech's RFC series RF connectors are a comprehensive assortment of Radio Frequency signal connectors in standard, miniature, sub-miniature, micro miniature and surface mount styles. Included are BNC, TNC, FME, FMA, SMA, SMB, N, F, PAL, UHF, Mini-UHF, MCX, MMCX, MHF, W.FL & 1.6/5.6 coupling versions. Each has a standard industry interface. Most are ideal for applications where size and weight are important in densely populated applications. All afford excellent RF characteristics

FEATURES:

Bodies available with gold or nickel plating
 Insulators available in Teflon, Delrin, and Polypropylene
 Standard availability of 50 or 75 ohms impedance
 Through hole and SMT types for printed circuit board versions
 Male and female types available in bulkhead and cable mount versions

MATING CONNECTORS:

Adam Tech RF series connectors and all industry Standard RF connectors

SPECIFICATIONS:

Material:

Housing: Brass, Nickel plated
 Zinc diecast, Nickel plated
 Standard Insulators: Delrin, Polypropylene or Teflon
 Optional Hi-Temp Insulator: Teflon
 Contacts: Beryllium copper, Gold plated

Electrical:

Operating voltage: 150V AC max.
 Contact resistance: 5 mΩ max. initial
 Impedance: 50 or 75 ohms
 Insulation resistance: 5000 M min.
 Dielectric withstanding voltage: 1000V AC for 1 minute
 VSWR: 1.2 max
 Frequency range: 0 – 6 GHZ

Mechanical:

Engagement force: 4.5 lbs max
 Disengagement force: 2 lbs min
 Cable retention: equal to breaking strength of cable employed
 Durability: 500 cycles

Temperature Rating:

Operating temperature: -20°C to +85°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

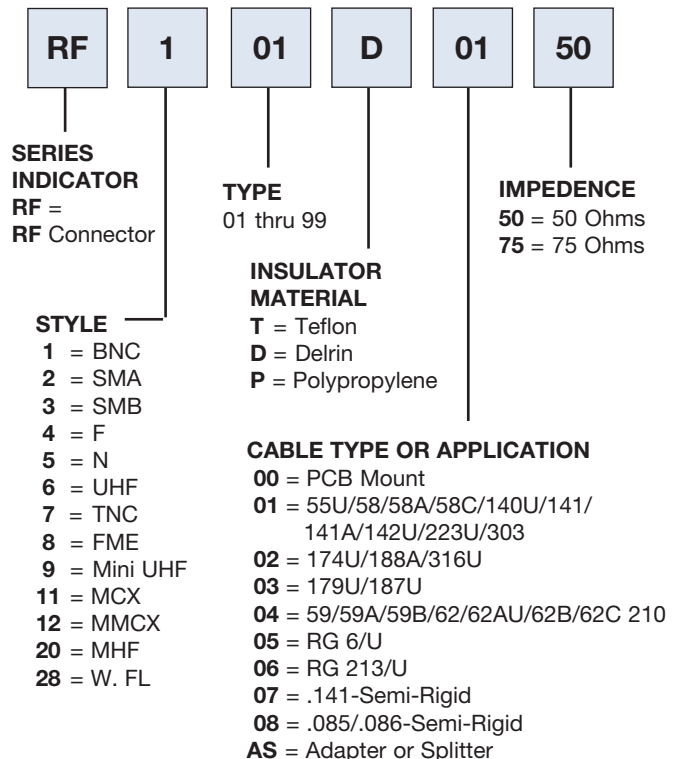
Anti-ESD plastic trays or bags

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

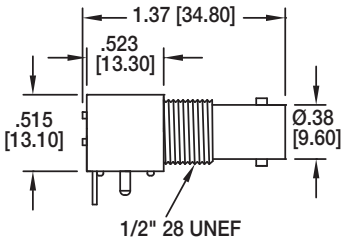

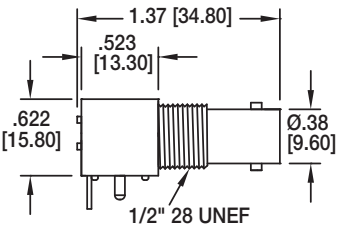



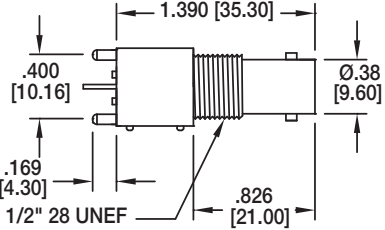
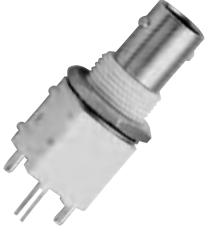


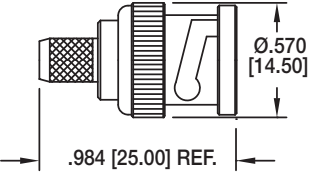







ORDERING INFORMATION



OPTIONS:

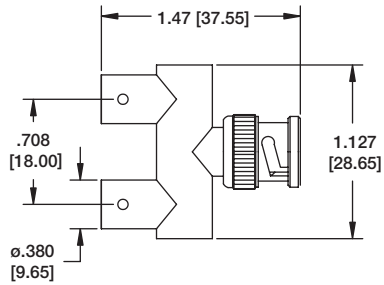
Add as suffix to basic part no.
HT = Hi-Temp insulator for hi-temp soldering processes up to 260°C
G = Gold plated body and contact

<p>RF1 TYPE 01 BNC RIGHT ANGLE FEMALE PCB MOUNT</p>   <p>RF1-01-P-00-50</p>	<p>FAKRA Automotive Connectors</p> <p>Adam Tech produces a series of FAKRA Automotive connectors designed to satisfy RF requirements in various telematic and multimedia applications. Our connectors provide high performance, cost effective RF interface to FAKRA and USCAR standards. Their SMB based design include multiple color coded plastic housings for easy identification. Adam Tech FAKRA connectors are designed to operate at up to 4GHz and meet the operational and environmental requirements of Digital Satellite Radio (SDARS) and other standards such as GSM and GPS.</p>	
<p>RF1 TYPE 01A BNC HIGH PROFILE RIGHT ANGLE FEMALE PCB MOUNT</p>   <p>RF1-01A-P-00-50</p>	<p>RF55 TYPE 01 FAKRA JACK FOR CABLE</p> 	<p>RF55 TYPE 02 FAKRA JACK RIGHT ANGLE FOR CABLE</p> 
<p>RF1 TYPE 01V BNC STRAIGHT FEMALE PCB MOUNT</p>   <p>RF1-01V-P-00-75</p>	<p>RF55 TYPE 03 FAKRA PLUG FOR CABLE ANTENNA TYPE</p> 	<p>RF55 TYPE 04 FAKRA RIGHT ANGLE JACK SQUARE BODY FOR SMT OR DIP PCB APPLICATIONS</p> 
<p>RF1 TYPE 03 BNC MALE CRIMP</p>   <p>RF1-03-D-05-75</p>	<p>RF55 TYPE 05 FAKRA RIGHT ANGLE JACK FOR DIP PCB</p> 	<p>RF55 TYPE 06 FAKRA RIGHT ANGLE PLUG FOR CABLE</p> 
<p>RF55 TYPE 07 FAKRA SQUARE PLUG FOR CABLE</p> 	<p>RF55 TYPE 08 FAKRA SQUARE BNC PLUG FOR CABLE</p> 	

RF1 TYPE 06
BNC MALE "Y" ADAPTER



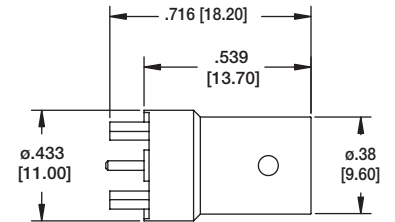
RF1-06-D-AS-50



RF1 TYPE 07
BNC FEMALE PC BOARD MOUNT



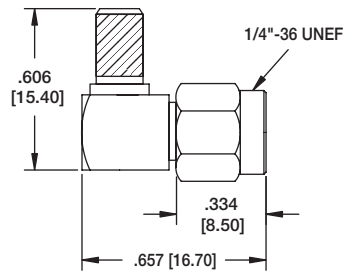
RF1-07-T-00-75



RF2 TYPE 01
SMA RIGHT ANGLE MALE CRIMP TYPE



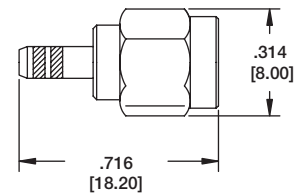
RF2-01-T-02-50



RF2 TYPE 02
SMA MALE CRIMP TYPE



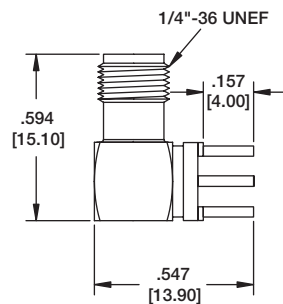
RF2-02-T-02-50-G



RF2 TYPE 03
SMA RIGHT ANGLE FEMALE PC BOARD MOUNT



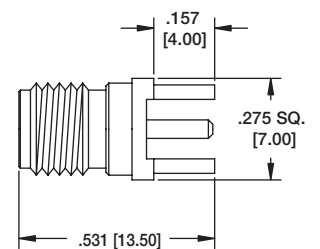
RF2-03-T-00-50-G



RF2 TYPE 04
SMA FEMALE PC BOARD MOUNT



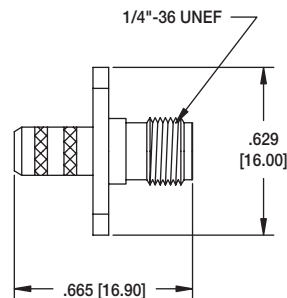
RF2-04-T-00-50-G



RF2 TYPE 05
SMA FEMALE CHASSIS CRIMP



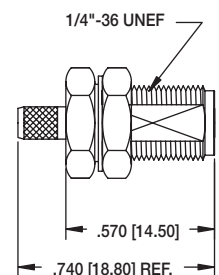
RF2-05-T-00-50-G



RF2 TYPE 06
SMA FEMALE BULKHEAD CRIMP



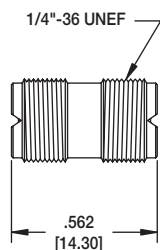
RF2-06-T-02-50



RF2 TYPE 07
SMA DOUBLE FEMALE ADAPTOR



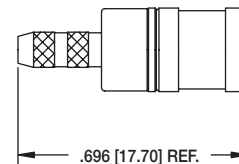
RF2-07-T-AS-50



RF3 TYPE 01
SMB MALE CRIMP



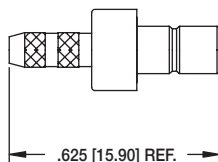
RF3-01-T-01-50-G



RF3 TYPE 02
SMB FEMALE CRIMP



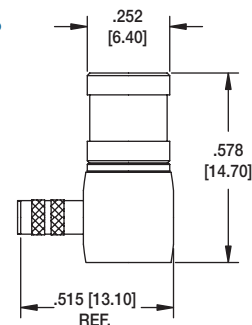
RF3-02-T-01-50-G



RF3 TYPE 03
SMB MALE RIGHT ANGLE CRIMP



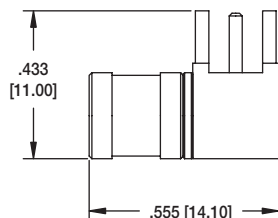
RF3-03-T-03-75-G



RF3 TYPE 04
SMB RIGHT ANGLE MALE PCB MOUNT



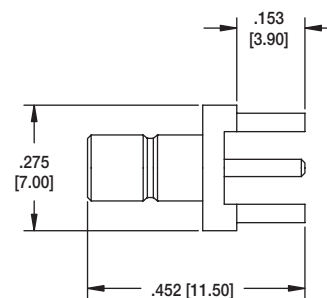
RF3-04-T-00-50-G



RF3 TYPE 05
SMB FEMALE PCB MOUNT



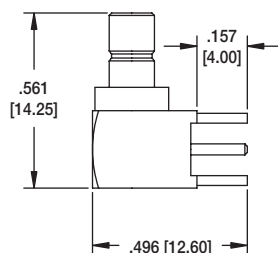
RF3-05-T-00-50-G



RF3 TYPE 06
SMB RIGHT ANGLE FEMALE PCB MOUNT



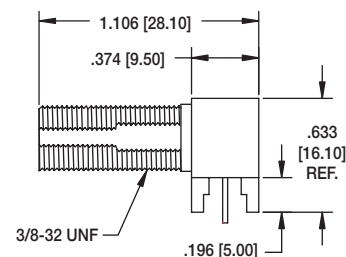
RF3-06-T-00-50-G



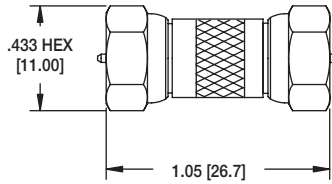
RF4 TYPE 01
F FEMALE RIGHT ANGLE PCB MOUNT



RF4-01-T-00-75

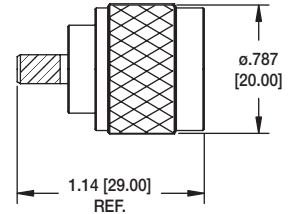


RF4 TYPE 02
F MALE TO MALE



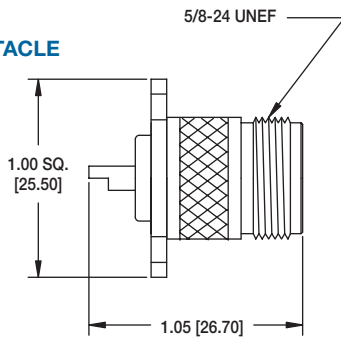
RF4-02-T-AS-75

RF5 TYPE 01
N MALE CRIMP TYPE



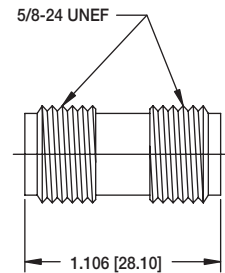
RF5-01-D-01-50

RF5 TYPE 02
N FEMALE PANEL RECEPTACLE



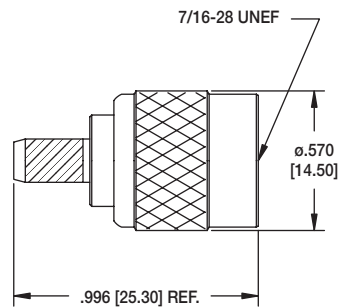
RF5-02-D-01-50

RF6 TYPE 01
UHF DOUBLE FEMALE



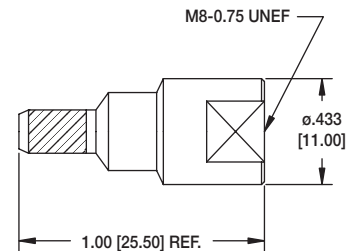
RF6-01-D-AS-50

RF7 TYPE 01
TNC MALE CRIMP



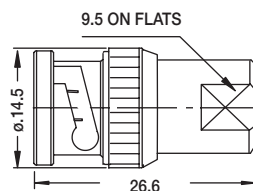
RF7-01-D-02-50

RF8 TYPE 01
FME MALE CRIMP



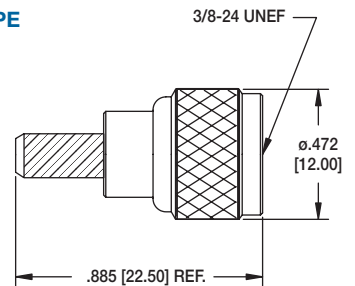
RF8-01-T-01-50-G

RF8 TYPE 02
FME MALE TO BNC MALE



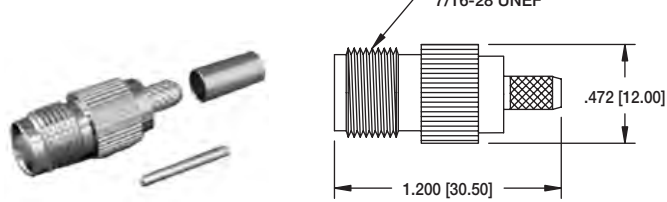
RF8-02-T-AS-50

RF9 TYPE 01
MINI UHF MALE CRIMP TYPE



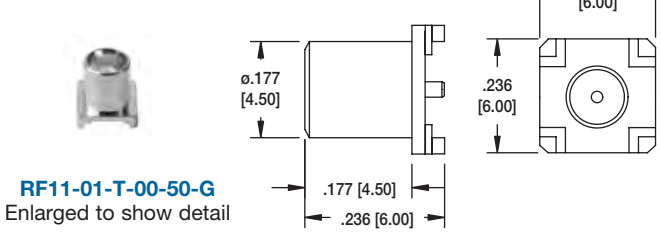
RF7-01-D-02-50

**RF7 TYPE 08
TNC FEMALE CRIMP**



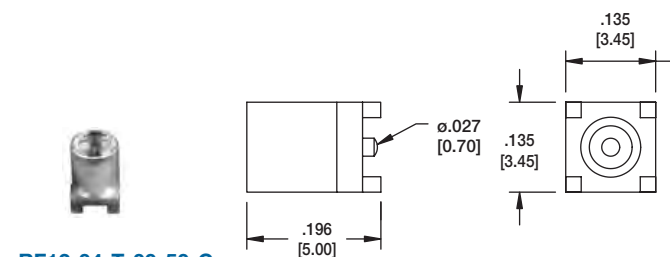
RF7-08-T-02-50-G

**RF11 TYPE 01
MCX FEMALE VERTICAL SMT MOUNT**



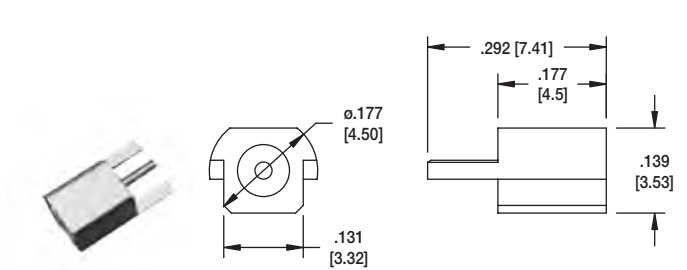
RF11-01-T-00-50-G
Enlarged to show detail

**RF12 TYPE 04
MMCX MALE VERTICAL PCB MOUNT**



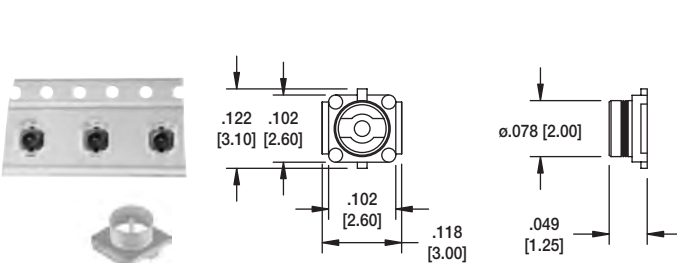
RF12-04-T-00-50-G
Enlarged to show detail

**RF12 TYPE 05
MMCX PCB MOUNT**



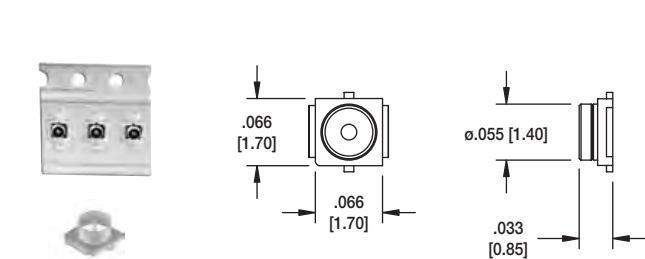
RF12-05-T-00-50-G

**RF20 TYPE 01
MHF SURFACE MOUNT**



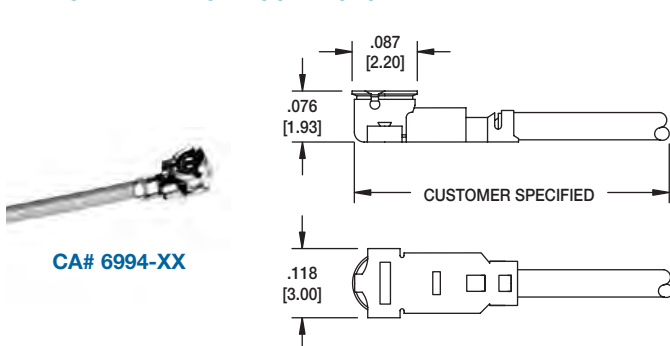
RF20-01-p-00-50-G
Enlarged to show detail

**RF28 TYPE 01
W.FL SURFACE MOUNT**



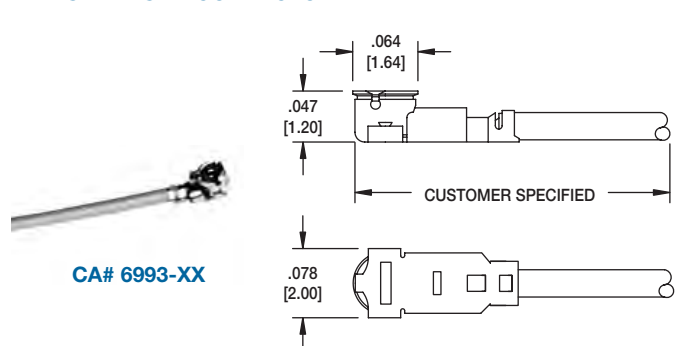
RF28-01-T-00-50-G
Enlarged to show detail

**RF20 TYPE 01 CABLE ASSEMBLY
MATES WITH MHF SMT CONNECTOR**



CA# 6994-XX

**RF28 TYPE 01 CABLE ASSEMBLY
MATES W.FL SMT CONNECTOR**



CA# 6993-XX

INTRODUCTION:

Adam Tech right angle PCB mount .318" footprint D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are a good choice for a low cost industry standard connection. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T
 Insulator color: Black
 Contacts: Phosphor Bronze
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

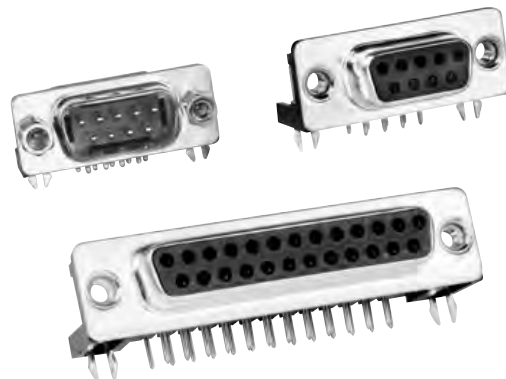
Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min
 Temperature Rating:
 Operating temperature: -55°C to +105°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

Packaging:

Anti-ESD plastic trays

Approvals and Certifications:

UL Recognized File no. E224053



ORDERING INFORMATION



SHELL SIZE/ POSITIONS

DE09 = 9 Position
 DA15 = 15 Position
 DB25 = 25 Position
 DC37 = 37 Position

CONTACT TYPE

PL = Plug, .318" Footprint
 SL = Socket, .318" Footprint

MATING FACE MOUNTING OPTIONS

3 = #4-40 fixed jackscrews
 4 = #4-40 flush threaded inserts
 5 = #4-40 flush threaded inserts with removable jackscrews installed
 6 = .120" non-threaded mounting holes

* See Mounting Option diagrams pg. 66

PCB MOUNTING OPTIONS

1 = Wrap around ground straps with thru holes
 2 = Forked board locks
 3 = Top side only ground straps with thru holes
 4 = Top side only ground straps with #4-40 threaded screw holes

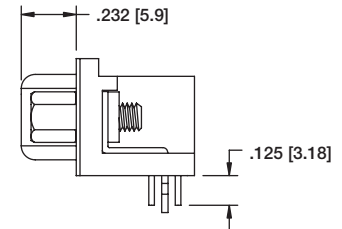
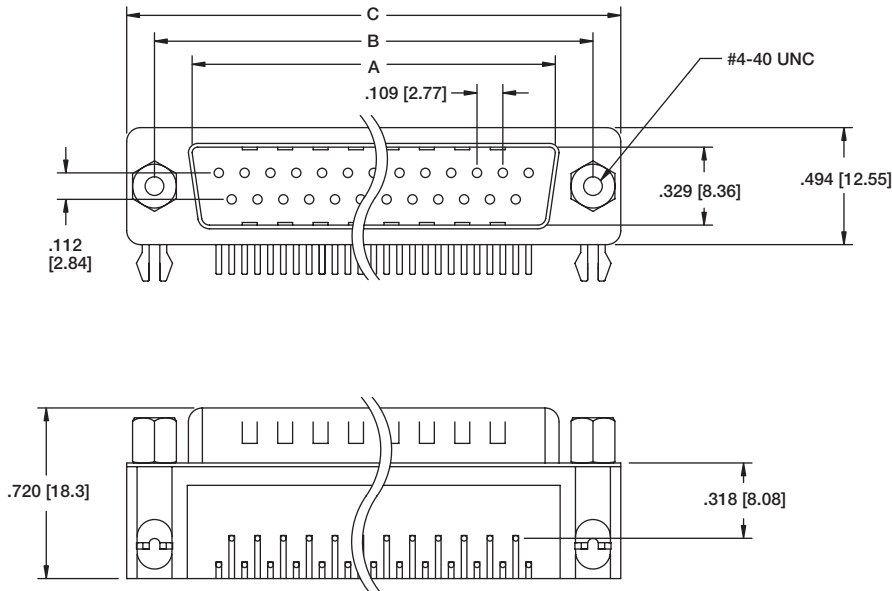
* See Mounting Option diagrams pg. 66

OPTIONS:

Add designator(s) to end of part number
 15 = 15 μin gold plating in contact area
 30 = 30 μin gold plating in contact area
 EMI = Ferrite filtered version for EMI/RFI suppression
 LPJ = Loose packed jackscrews
 F = Superior retention 4 prong boardlocks
 HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C
 R = Round jackscrews

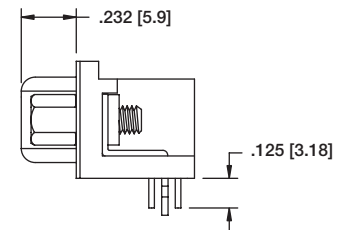
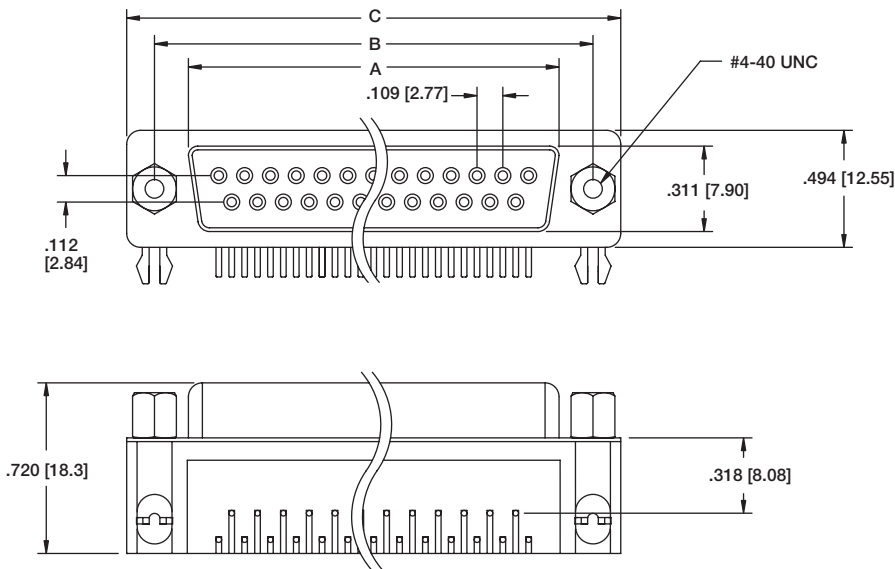


PLUG

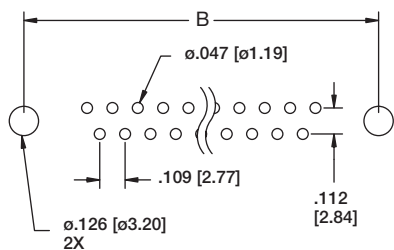


DB25-PL-25

SOCKET



DB25-SL-24

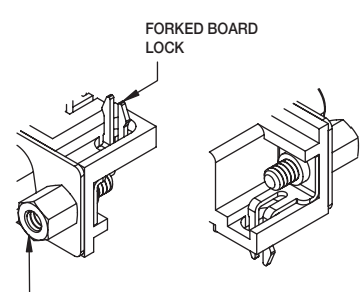
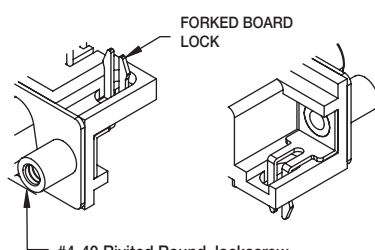
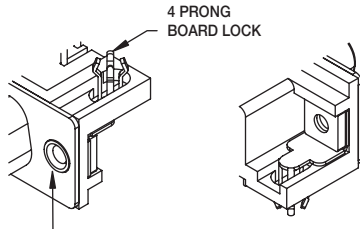
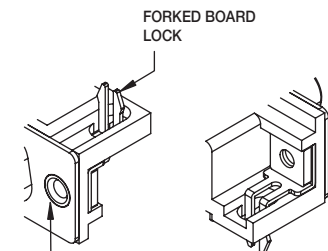
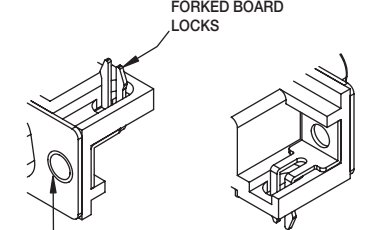
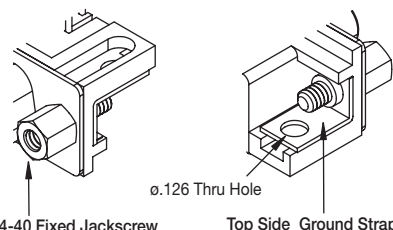
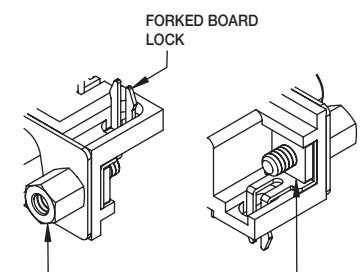
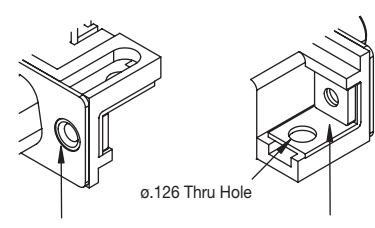
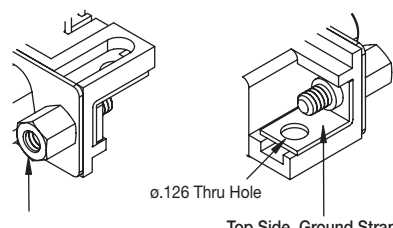
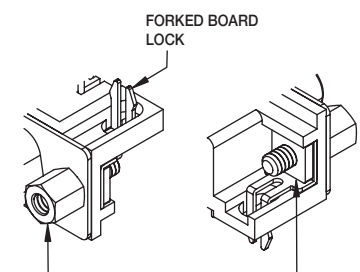
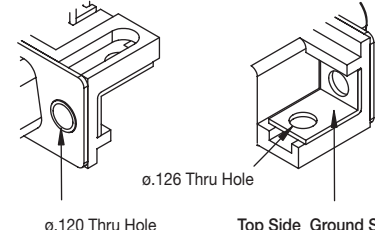
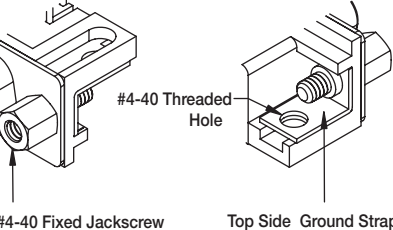


Recommended PCB Layout

Unit: Inch [mm]

Pos.	PLUG	SOCKET	DIMENSIONS	
	A	A	B	C
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]

MATING FACE & PCB MOUNTING OPTIONS

<p>OPTION 23</p>  <p>FORKED BOARD LOCK</p> <p>#4-40 Fixed Jackscrew</p> <p>* Standard Stocked Item</p>	<p>OPTION 23-R #4-40 Rivited Round Jackscrew (Shown)</p> <p>OPTION 27 #4-40 Rivited Hex Jackscrew (Not Shown)</p>  <p>FORKED BOARD LOCK</p> <p>#4-40 Rivited Round Jackscrew</p>	<p>OPTION 24-F</p>  <p>4 PRONG BOARD LOCK</p> <p>#4-40 Threaded Insert</p>
<p>OPTION 24</p>  <p>FORKED BOARD LOCK</p> <p>#4-40 Threaded Insert</p> <p>* Standard Stocked Item</p>	<p>OPTION 26</p>  <p>FORKED BOARD LOCKS</p> <p>#4-40 Fixed Jackscrew</p> <p>ø.120 Thru Hole</p>	<p>OPTION 33</p>  <p>#4-40 Fixed Jackscrew</p> <p>ø.126 Thru Hole</p> <p>Top Side Ground Strap</p>
<p>OPTION 25</p>  <p>FORKED BOARD LOCK</p> <p>Removable Jackscrew</p> <p>#4-40 Threaded Insert</p> <p>* Standard Stocked Item</p>	<p>OPTION 34</p>  <p>#4-40 Threaded Insert</p> <p>Top Side Ground Strap</p> <p>ø.126 Thru Hole</p>	<p>OPTION 35</p>  <p>#4-40 Threaded Insert with Removable Jackscrew</p> <p>Top Side Ground Strap</p> <p>ø.126 Thru Hole</p>
<p>OPTION 25</p>  <p>FORKED BOARD LOCK</p> <p>Removable Jackscrew</p> <p>#4-40 Threaded Insert</p> <p>* Standard Stocked Item</p>	<p>OPTION 36</p>  <p>#4-40 Threaded Insert</p> <p>Top Side Ground Strap</p> <p>ø.126 Thru Hole</p> <p>ø.120 Thru Hole</p>	<p>OPTION 43</p>  <p>#4-40 Fixed Jackscrew</p> <p>Top Side Ground Strap</p> <p>#4-40 Threaded Hole</p>

INTRODUCTION:

Adam Tech right angle PCB mount .590" footprint D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are an excellent choice for a low cost industry standard connection. They are available with full or half size PCB side mounting flanges. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Half or Full flange options
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T
 Insulator Color: Black
 Contacts: Phosphor Bronze
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 mΩ max. Initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -55°C to +105°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION

DB25

SQ

SA

4

SHELL SIZE/ POSITIONS

DE09 = 9 Position
 DA15 = 15 Position
 DB25 = 25 Position
 DC37 = 37 Position

CONTACT TYPE

PQ = Plug,
 .590" Footprint
 SQ = Socket,
 .590" Footprint

MATING FACE MOUNTING OPTIONS

3 = #4-40 fixed jack screws
 4 = #4-40 flush threaded inserts
 5 = #4-40 flush threaded inserts with removable jack screws installed
 6 = .120" non-threaded mounting holes

* See Mounting Option diagrams page 64

PCB MOUNTING OPTIONS

SA = Wrap around ground straps with thru holes on half flange
 SB = Wrap around ground straps with thru holes on full flange
 SC = Top side only ground straps with thru holes on half flange
 SD = Top side only ground straps with thru holes on full flange
 F = Forked boardlocks on half flange
 R = Forked boardlocks on full flange

* See Mounting Option diagrams page 64

OPTIONS:

Add designator(s) to end of part number

15 = 15 μin gold plating in contact area

30 = 30 μin gold plating in contact area

EMI = Ferrite filtered version for EMI/RFI suppression

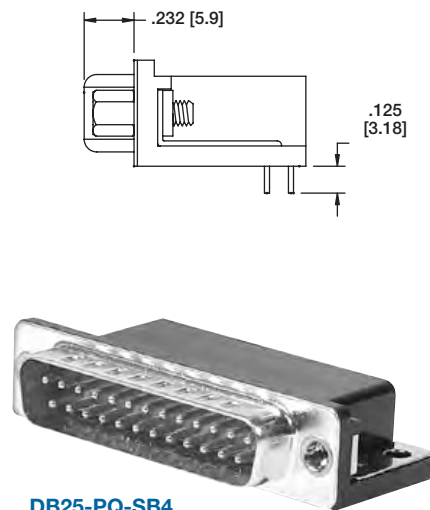
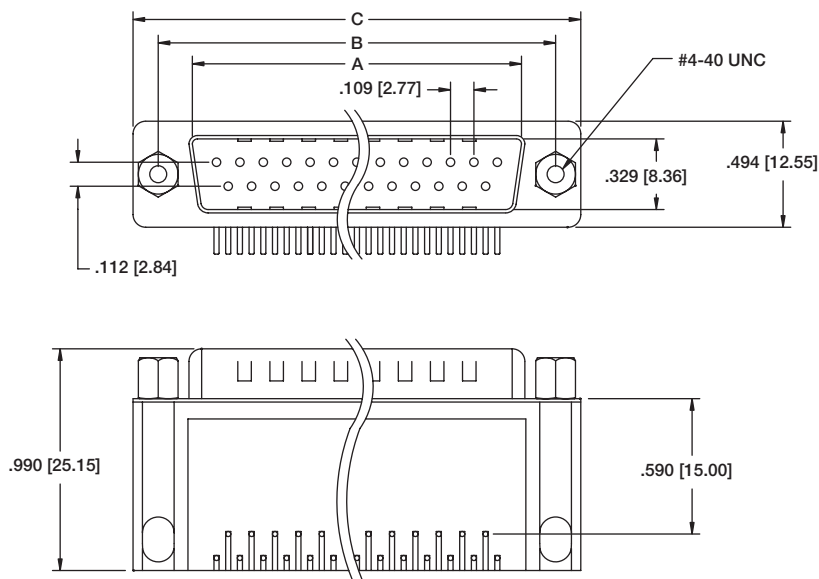
LPJ = Loose packed jackscrews
 F = Superior retention 4 prong boardlocks

HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

R = Round jackscrews

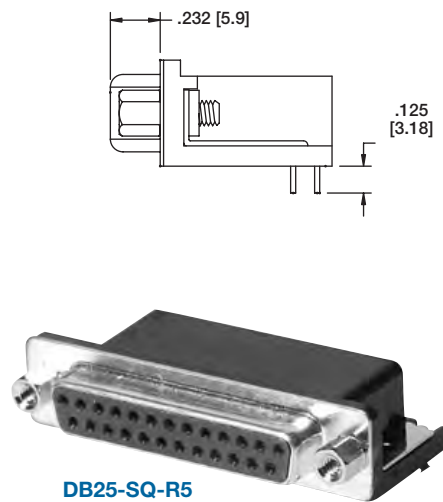
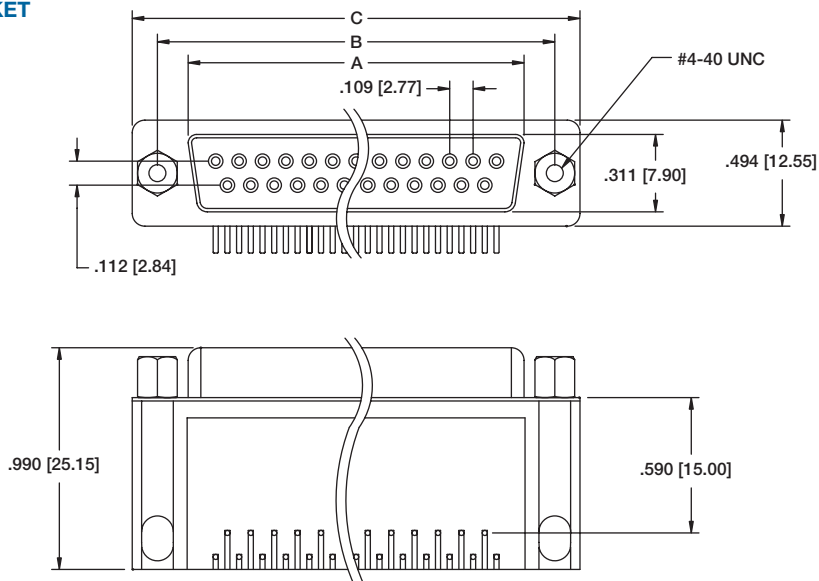
See pg. 64 for Mounting Options

PLUG



DB25-PQ-SB4

SOCKET

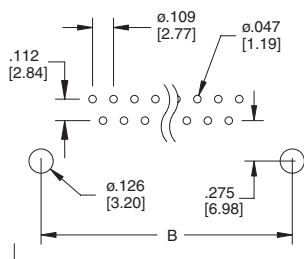


DB25-SQ-R5

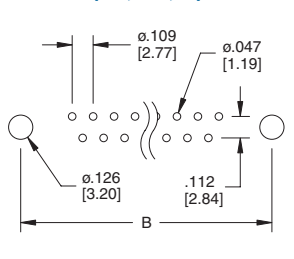
Unit: Inch [mm]

Pos.	PLUG	SOCKET	DIMENSIONS	
	A	A	B	C
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]

Half Flange PCB Layout for PCB mounting options (SA, SC, F)

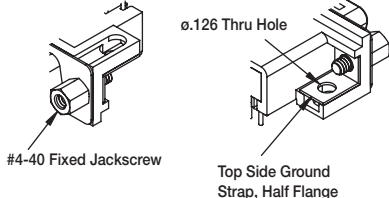
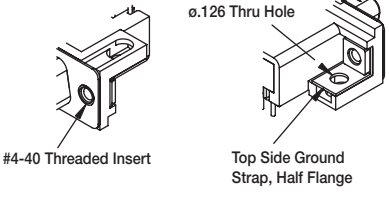
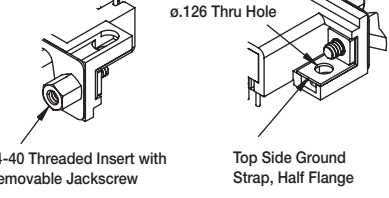
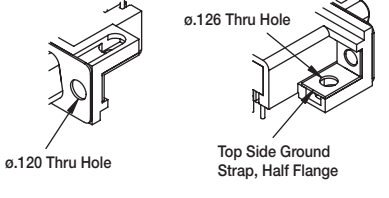
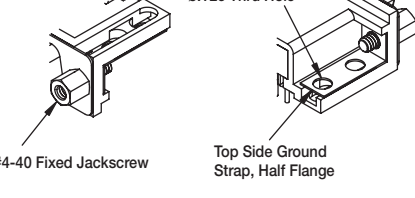
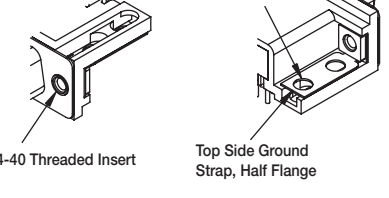
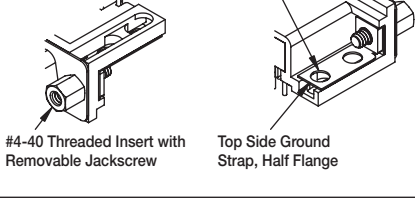
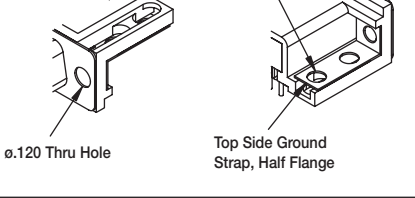
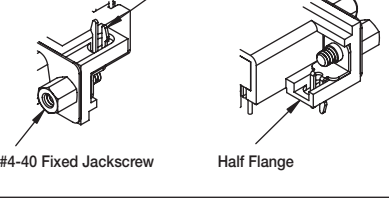
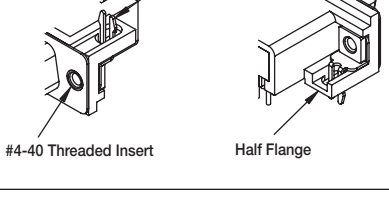
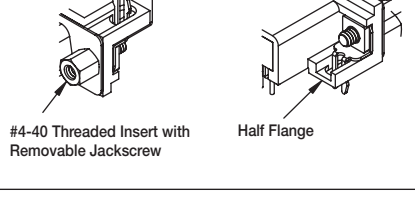
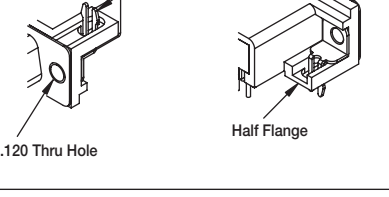
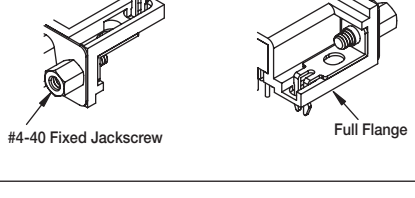
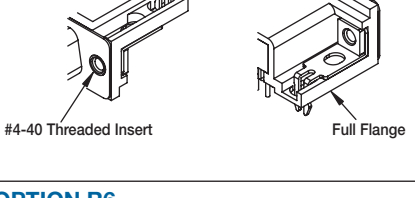
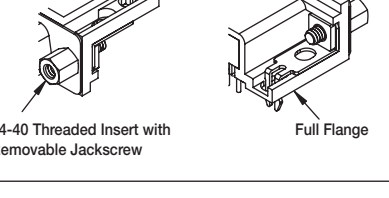
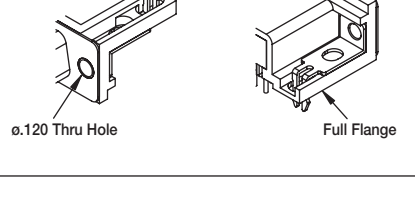


Full Flange PCB Layout for PCB mounting options (SB, SD, R)



PCB Edge

Mating Face & PCB Mounting Options

<p>OPTION SC3</p>  <p>#4-40 Fixed Jackscrew Top Side Ground Strap, Half Flange 0.126 Thru Hole</p>	<p>OPTION SC4</p>  <p>#4-40 Threaded Insert Top Side Ground Strap, Half Flange 0.126 Thru Hole</p>	<p>OPTION SC5</p>  <p>#4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap, Half Flange 0.126 Thru Hole</p>
<p>OPTION SC6</p>  <p>0.120 Thru Hole Top Side Ground Strap, Half Flange</p>	<p>OPTION SD3</p>  <p>#4-40 Fixed Jackscrew Top Side Ground Strap, Half Flange 0.126 Thru Hole</p>	<p>OPTION SD4</p>  <p>#4-40 Threaded Insert Top Side Ground Strap, Half Flange 0.126 Thru Hole</p>
<p>OPTION SD5</p>  <p>#4-40 Threaded Insert with Removable Jackscrew Top Side Ground Strap, Half Flange 0.126 Thru Hole</p>	<p>OPTION SD6</p>  <p>0.120 Thru Hole Top Side Ground Strap, Half Flange 0.126 Thru Hole</p>	<p>OPTION F3</p>  <p>#4-40 Fixed Jackscrew Half Flange Forked Board Lock</p>
<p>OPTION F4</p>  <p>#4-40 Threaded Insert Half Flange Forked Board Lock</p>	<p>OPTION F5</p>  <p>#4-40 Threaded Insert with Removable Jackscrew Half Flange Forked Board Lock</p>	<p>OPTION F6</p>  <p>0.120 Thru Hole Half Flange Forked Board Lock</p>
<p>OPTION R3</p>  <p>#4-40 Fixed Jackscrew Full Flange Forked Board Lock</p>	<p>OPTION R4</p>  <p>#4-40 Threaded Insert Full Flange Forked Board Lock</p>	<p>OPTION R5</p>  <p>#4-40 Threaded Insert with Removable Jackscrew Full Flange Forked Board Lock</p>
<p>OPTION R6</p>  <p>0.120 Thru Hole Full Flange Forked Board Lock</p>		

INTRODUCTION:

Adam Tech Combination Signal/Coax D-Sub connectors are a popular interface for many mixed signal I/O applications. Offered in five shell sizes they are a good choice for a low cost industry standard connection that requires utilization of standard signal and high performance, low impedance signals either in signal-coax or signal -power choices. Adam Tech connectors are manufactured with precision stamped standard signal contacts and precision turned coax contacts. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

Electrical:

Operating voltage: 250V AC / DC max.
Signal Current rating: 5 Amps max.
High Power contact current rating: 20 or 40 Amps.
Coaxial Impedance: 50Ω (75Ω optional)
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION

D13W3

SLP

1

2

SHELL

CONFIGURATIONS

D1W1, D2W2, D3W3,
D5W1, D5W5, D7W2,
D8W8, D9W4N,
D11W1, D13W3,
D13W6, D17W2,
D17W5, D21W1,
D21W4, D24W7,
D25W3, D27W2,
D36W4, D43W2

STYLE

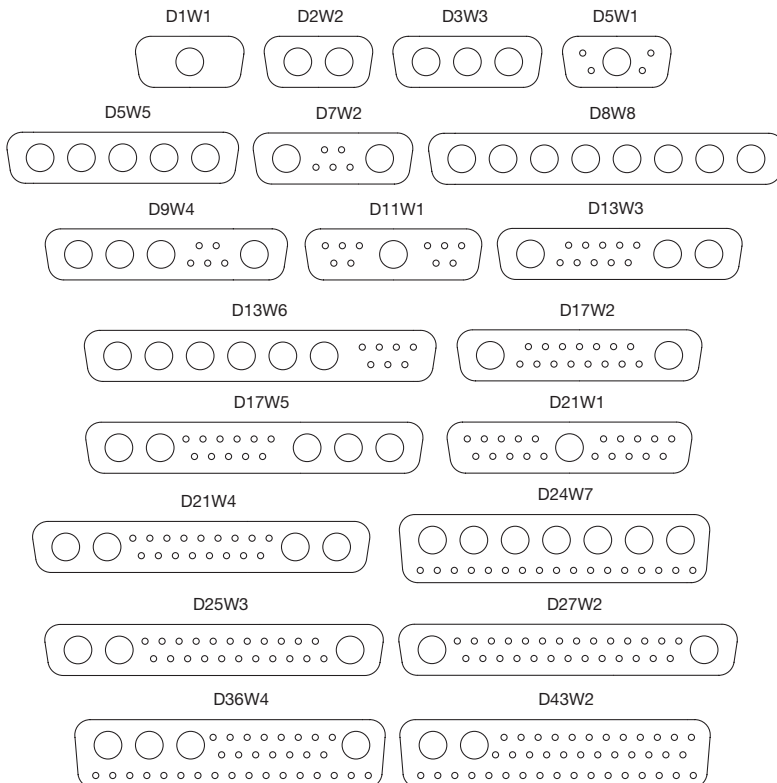
SIGNAL - COAX

1 = 50 Ohm
2 = 75 Ohm

SIGNAL - POWER

3 = 10 Amps
4 = 20 Amps
5 = 30 Amps
6 = 40 Amps
7 = 50 Amps

SHELL CONFIGURATIONS



TYPE

SIGNAL-COAX

PT = Plug, Straight PCB
ST = Socket, Straight PCB
PL = Plug, Right Angle PCB
SL = Socket, Right Angle PCB
PD = Plug, Solder Cup
SD = Socket, Solder Cup

SIGNAL-POWER

PTP = Plug, Straight PCB,
Power Contacts
STP = Socket, Straight PCB,
Power Contacts
PLP = Plug, Right Angle PCB,
Power Contacts
SLP = Socket, Right Angle
PCB, Power Contacts
PDP = Plug, Solder Cup
Power Contacts
SDP = Socket, Solder Cup
Power Contacts

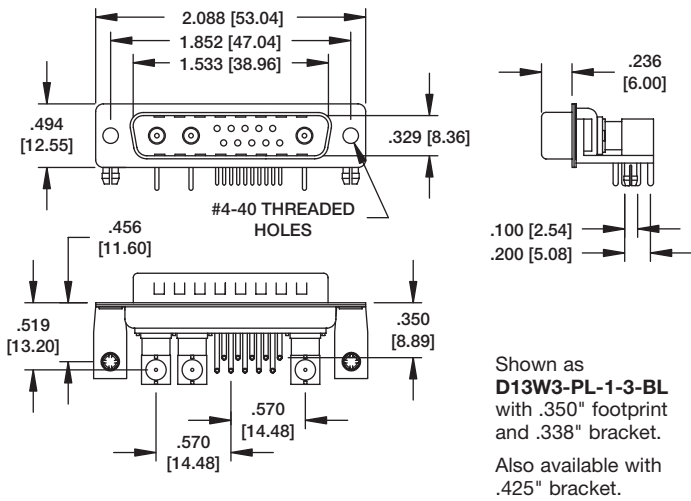
MOUNTING RIGHT ANGLE

1 = 120" non-threaded
mounting holes,
no bracket
2 = Short Bracket with
#4-40 flush threaded
inserts in mounting
holes
2A = Short Bracket with
#4-40 flush threaded
inserts in mounting
holes Jack Screws
installed
3 = Long Bracket with
#4-40 flush threaded
inserts in mounting
holes
3A = Long Bracket with
#4-40 flush threaded
inserts in mounting
holes Jack Screws
installed

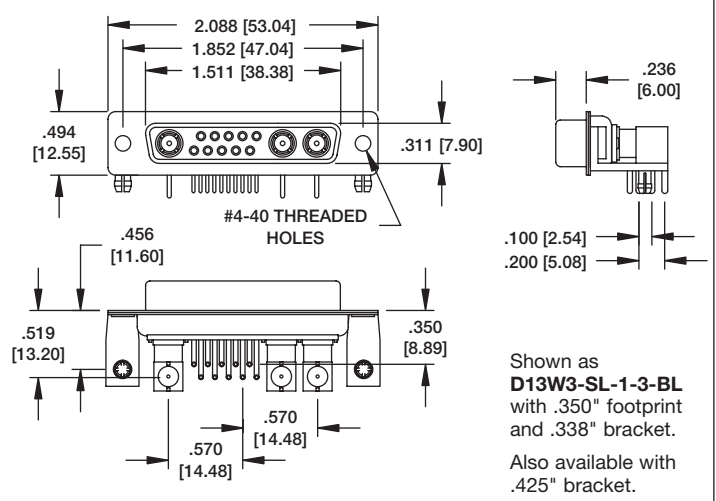
MOUNTING STRAIGHT

JS = Riveted #4-40 Jack
Screws on top of flange
SL = Riveted #4-40 clinch
nuts on bottom of flange
BL = Riveted Board Locks

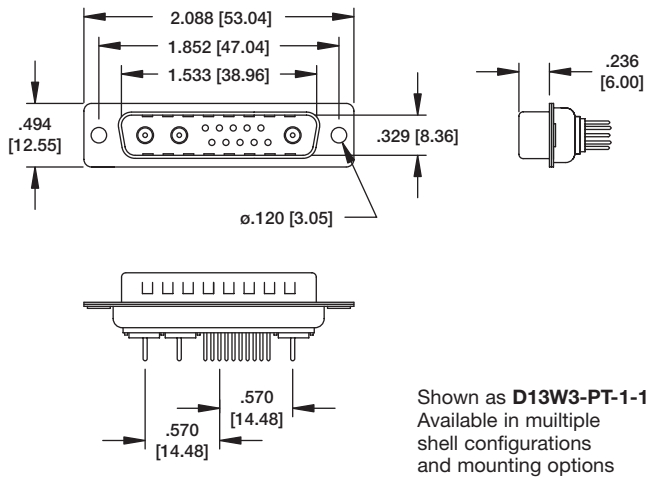
PLUG - RIGHT ANGLE PCB MOUNT SIGNAL-COAX



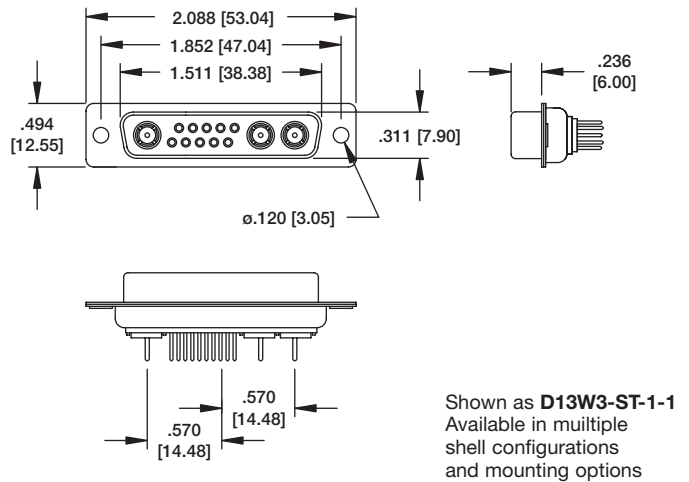
SOCKET - RIGHT ANGLE PCB MOUNT SIGNAL-COAX



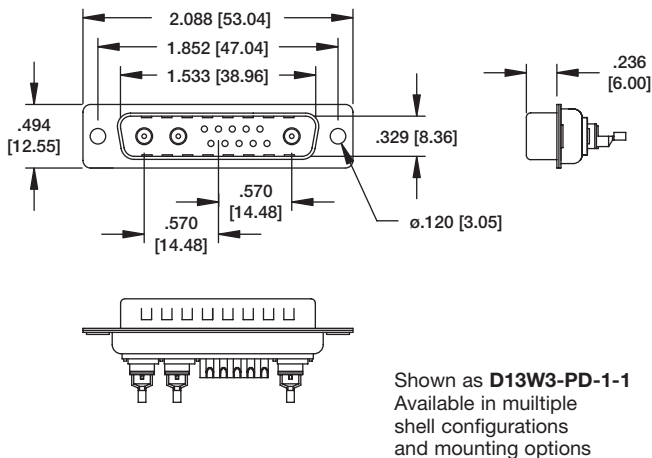
PLUG - STRAIGHT PCB MOUNT SIGNAL-COAX



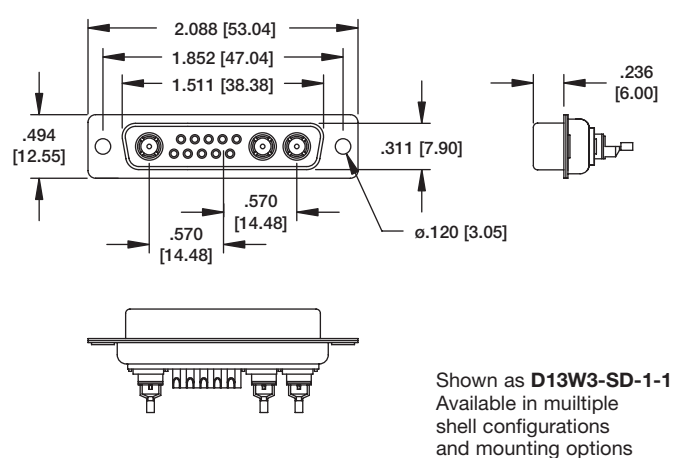
SOCKET - STRAIGHT PCB MOUNT SIGNAL-COAX



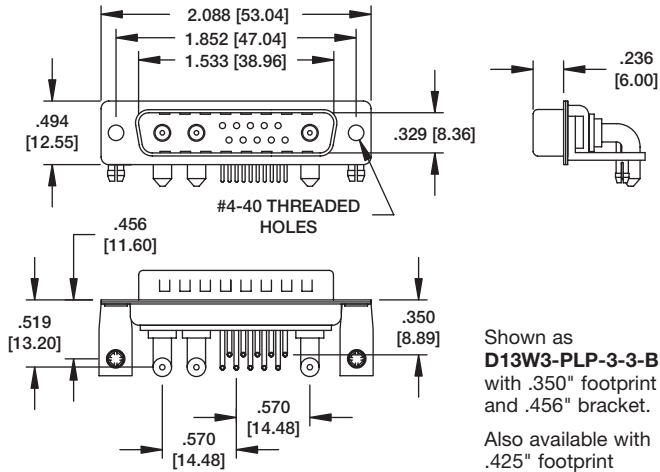
PLUG - STRAIGHT SOLDER CUP SIGNAL-COAX



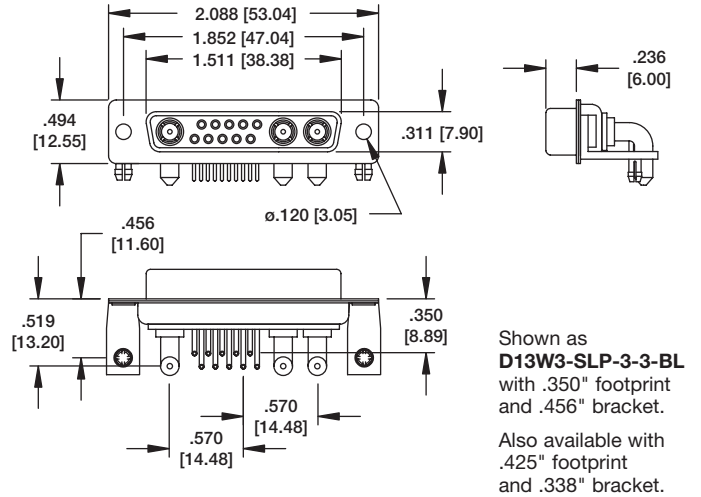
SOCKET - STRAIGHT SOLDER CUP SIGNAL-COAX



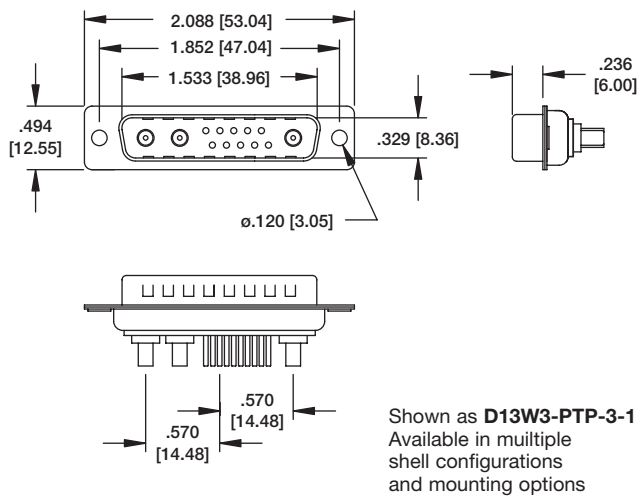
PLUG - RIGHT ANGLE PCB MOUNT SIGNAL-POWER



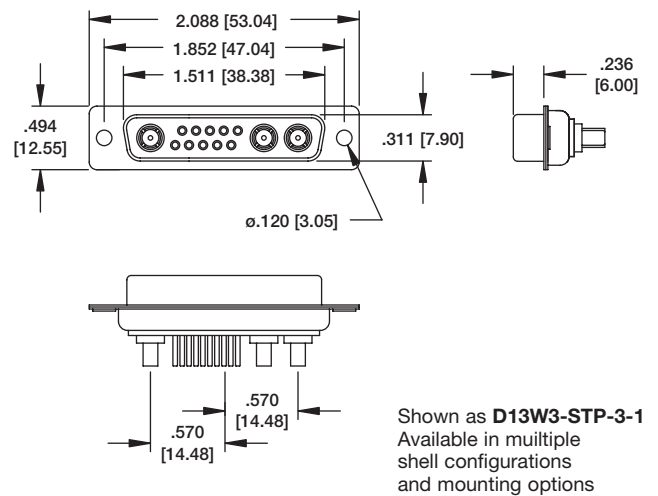
SOCKET - RIGHT ANGLE PCB MOUNT SIGNAL-POWER



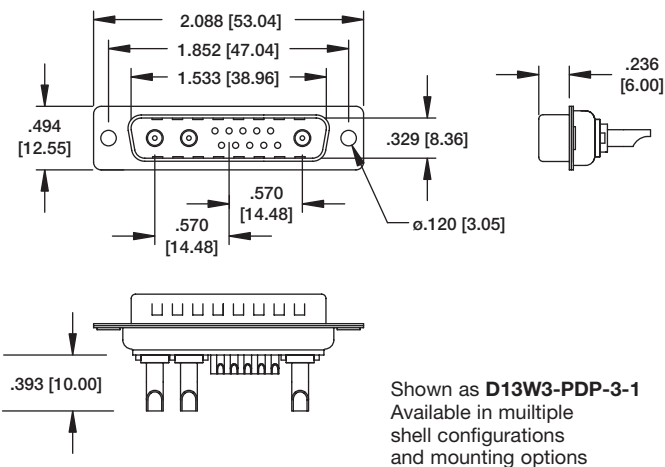
PLUG - STRAIGHT PCB MOUNT SIGNAL-POWER



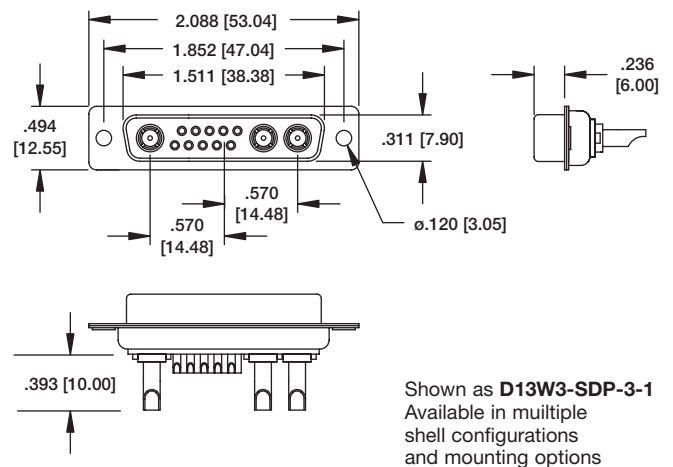
SOCKET - STRAIGHT PCB MOUNT SIGNAL-POWER



PLUG - STRAIGHT SOLDER CUP SIGNAL-POWER



SOCKET - STRAIGHT SOLDER CUP SIGNAL-POWER



INTRODUCTION:

Adam Tech Right Angle Slimline PCB tail D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Short profile space saving design
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T
 Insulator Color: Black
 Contacts: Phosphor Bronze
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -55°C to +105°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

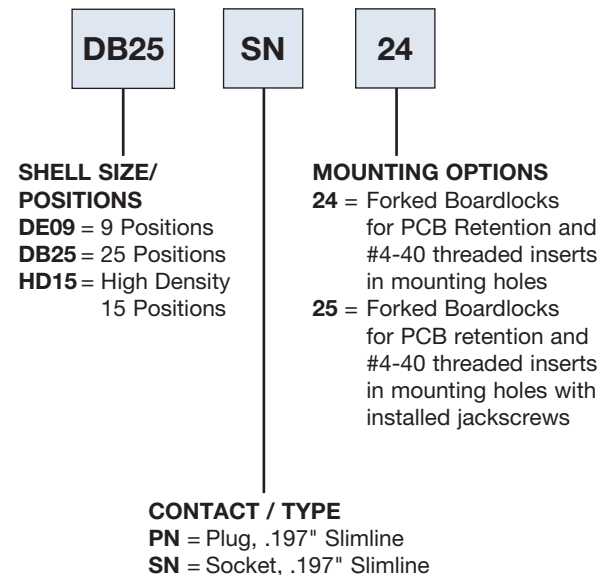
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION

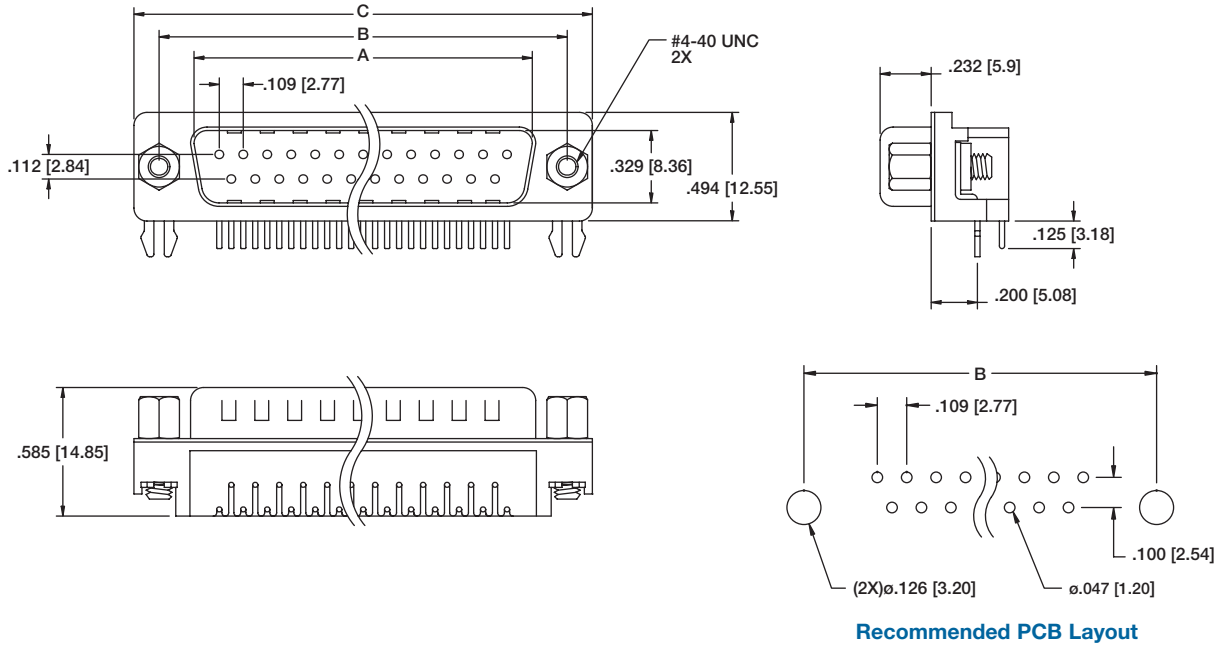


OPTIONS:

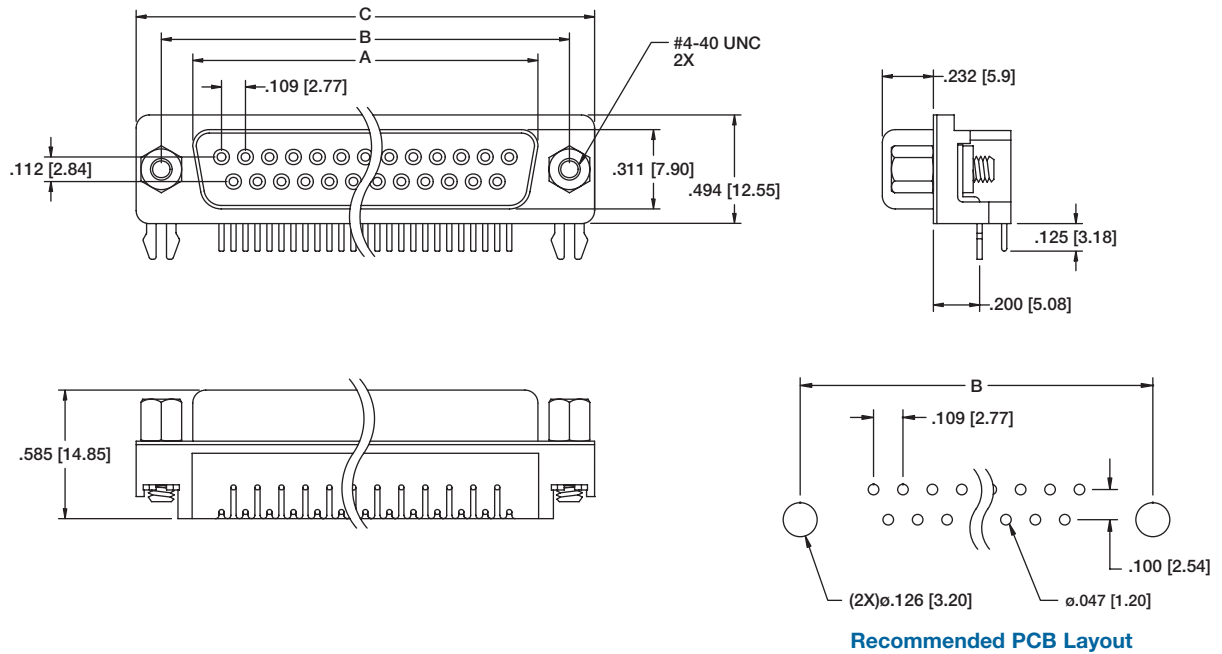
Add designator(s) to end of part number
15 = 15 μin gold plating in contact area
30 = 30 μin gold plating in contact area
LPJ = Loose packed jackscrews
HT = Hi-Temp insulator for Hi-Temp soldering
 processes up to 260°C
R = Round jackscrews installed



PLUG



SOCKET



Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS	
	A	A	B	C
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]

INTRODUCTION:

Adam Tech Right Angle SMT Slimline D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Short profile space saving design
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Insulator: Hi-Temperature thermoplastic, rated UL94V-0
 Insulator Color: Black
 Contacts: Phosphor Bronze or Brass
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 1 Amp max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -55°C to +105°C
 Soldering process temperature: 260°C

PACKAGING:

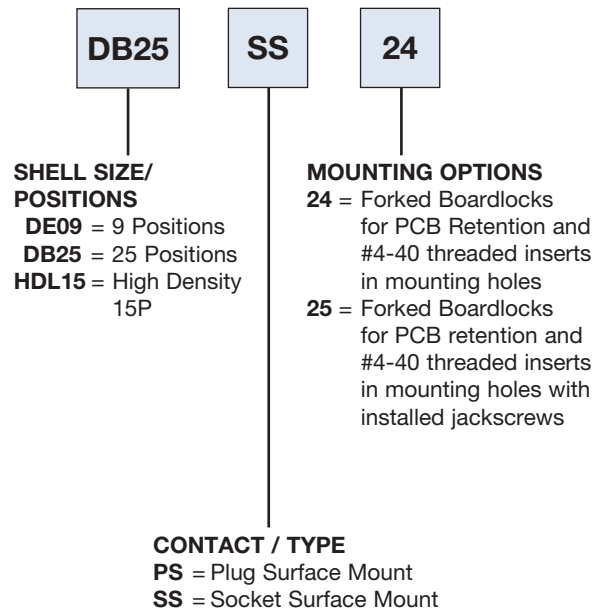
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION

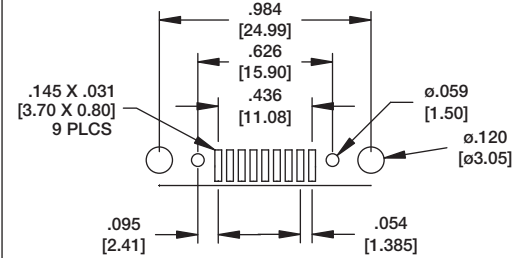
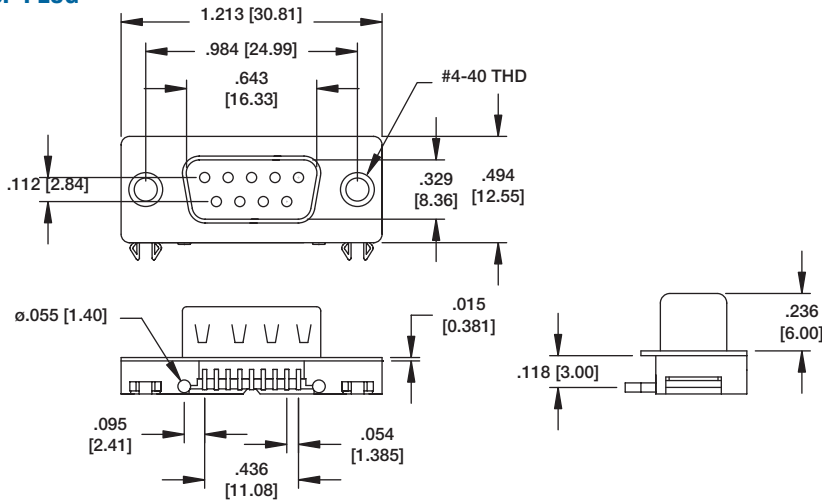


OPTIONS:

Add designator(s) to end of part number
15 = 15 μin gold plating in contact area
30 = 30 μin gold plating in contact area
R = Round jackscrews



9P PLUG



Recommended PCB Layout

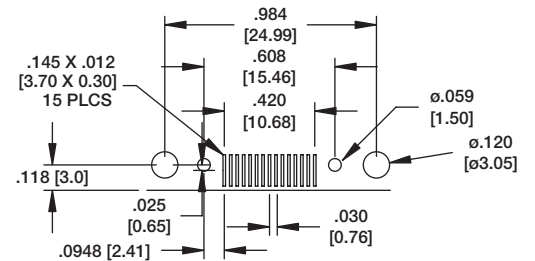
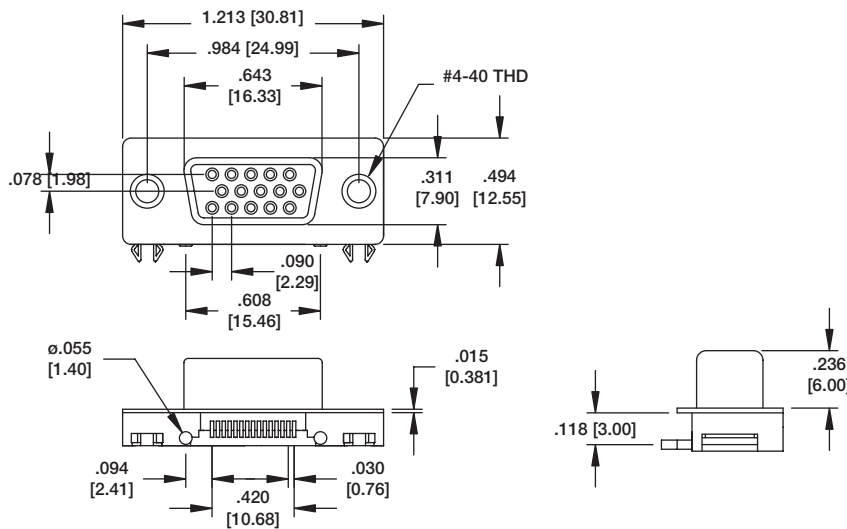


DE09-SS-24

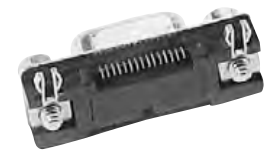


DE09-PS-25

HD15 SOCKET

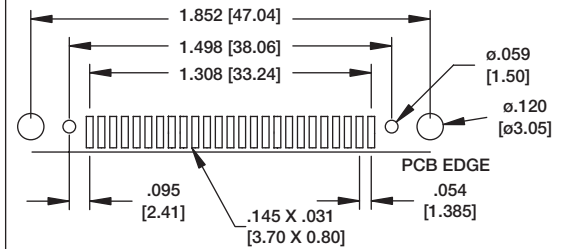
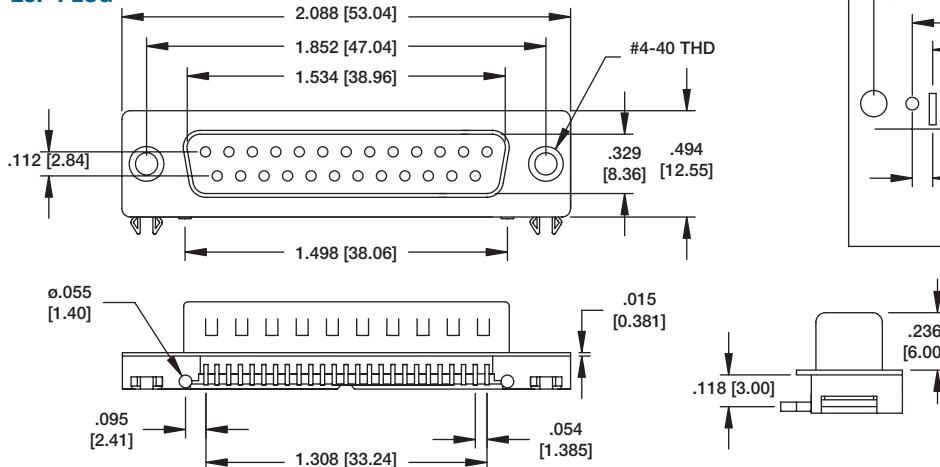


Recommended PCB Layout



HDL15-SS-25

25P PLUG



DB25-PS-24

INTRODUCTION

Adam Tech Right Angle .283" footprint D-Sub connectors with Screw Machine Contacts are a popular interface for many I/O applications. Offered in 9, 15, 25 and 37 positions they are a good choice for a high reliability industry standard connection. These connectors are manufactured with precision machine turned contacts and offer an exceptional high reliability connection. They are available in a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Exceptional Machine Contact connection
- Industry standard compatibility
- Durable metal shell design
- Precision turned screw machined contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T rated UL94V-0
 Insulator Colors: White (Black optional)
 Contacts: Phosphor Bronze
 Shell: Steel, Tin plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -55°C to +105°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

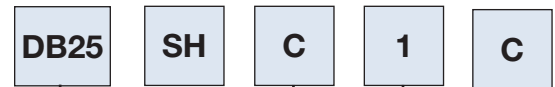


DB25-PH-C-3-AM

DB25-SH-C-2-B

DB25-PH-C-1-C

ORDERING INFORMATION



SHELL SIZE/ POSITIONS

DE09 = 9 Positions
 DA15 = 15 Positions
 DB25 = 25 Positions
 DC37 = 37 Positions
 DD50 = 50 Positions

CONTACT TYPE

PH = Plug, Right Angle Machined Contact
 SH = Socket, Right Angle Machined Contact

FOOTPRINT DIMENSION

C = .283" Footprint
 G = .370" Footprint

PCB MOUNTING OPTION

1 = Without Bracket
 2 = Bracket with forked boardlock
 3 = Bracket with .120" PCB mounting hole

MATING FACE MOUNTING OPTIONS

WITH BRACKET MOUNTING
A = Full plastic bracket with #4-40 Threaded Inserts
B = Full plastic bracket with #4-40 Threaded Inserts with removable Jackscrews
AM = Metal brackets with #4-40 Threaded Inserts
BM = Metal brackets with #4-40 Threaded Inserts with removable Jackscrews

WITHOUT BRACKET MOUNTING
C = .120" Non-Threaded holes

D = #4-40 Rear Clinch Nut
E = #4-40 Clinch Nut with removable Jackscrews

OPTIONS:

Add designator(s) to end of part number
15 = 15 μin gold plating in contact area
30 = 30 μin gold plating in contact area
BK = Black insulator
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

PLUG

.112 [2.84]
 .405 [10.28]
 .329 [8.36]
 .494 [12.55]
 #4-40 UNC
 .235 [5.97]
 .125 [3.18]
 "X"
 .112 [2.84]

"X" = FOOTPRINT DISTANCE
 C = .283 [7.20] FOOTPRINT
 G = .370 [9.40] FOOTPRINT

Choice of Plastic or Metal Bracket
Metal Bracket version shown

PCB MOUNTING OPTIONS

Option 1: Without Bracket

Option 2: Bracket with Board Lock

Option 3: Bracket with .120" Mounting Hole

SOCKET

.112 [2.84]
 .405 [10.28]
 .329 [8.36]
 .494 [12.55]
 #4-40 UNC
 .235 [5.97]
 .125 [3.18]
 X
 .112 [2.84]

"X" = FOOTPRINT DISTANCE
 C = .283 [7.20] FOOTPRINT
 G = .370 [9.40] FOOTPRINT

Choice of Plastic or Metal Bracket
Metal Bracket version shown

MATING FACE MOUNTING OPTIONS

Option C: .120" Mounting Hole

Option D: #4-40 Rear Clinch Nut

Option E: #4-40 Threaded Insert with removable Jack Screws

.109 [2.77]
 .112 [2.84]
 .043 [1.09]
 .125 [3.18]

Recommended PCB Layout 9, 15, 25 & 37 Position

.112 [2.84]
 .109 [2.77]
 .112 [2.84]
 .125 [3.18]
 .043 [1.09]

Recommended PCB Layout 50 Position

Unit: Inch / mm

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.436 [11.08]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	.763 [19.39]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.310 [33.24]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	1.963 [49.86]
50	2.790 [52.80]	2.016 [52.34]	2.402 [61.00]	2.646 [67.20]	1.744 [44.32]

INTRODUCTION:

Adam Tech Flat Cable IDC D-Sub connectors are a popular interface for many I/O and cable assembly applications. Offered in 9, 15, 25, 37 and 50 positions they are an excellent choice for a low cost industry standard connection that terminates .050" flat cable quickly, easily and compactly. These connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Quickly terminates to flat cable
- Industry standard compatibility
- Durable metal shell design
- Integral strain relief available
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0
 Insulator Colors: Black (Blue optional)
 Contacts: Phosphor Bronze
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min
 Recommended cable size: 28 to 30 Awg.

Temperature Rating:

Operating temperature: -55°C to +105°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION



SHELL SIZE/ POSITIONS

DE09 = 9 Position
 DA15 = 15 Position
 DB25 = 25 Position
 DC37 = 37 Position
 DD50 = 50 Position

CONTACT TYPE

PF = Plug, IDC
 SF = Socket, IDC

STRAIN RELIEF

PART NO.:

DSR-09 = 9 Position
 DSR-15 = 15 Position
 DSR-25 = 25 Position
 DSR-37 = 37 Position
 DSR-50 = 50 Position

MOUNTING OPTIONS

1 = .130" mounting holes
 2 = #4-40 threaded
 flush inserts
 (Metal Shell only)

BODY

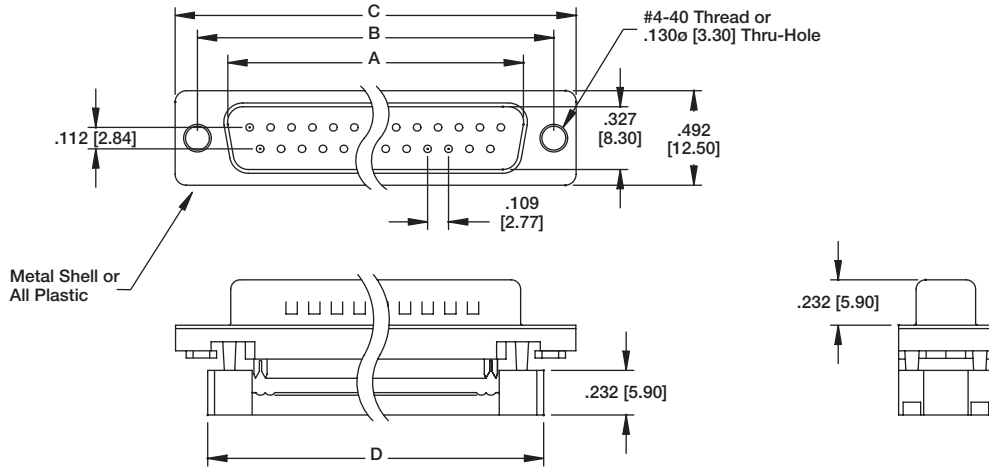
CONSTRUCTION
 M = Metal shell
 P = All plastic body

OPTIONS:

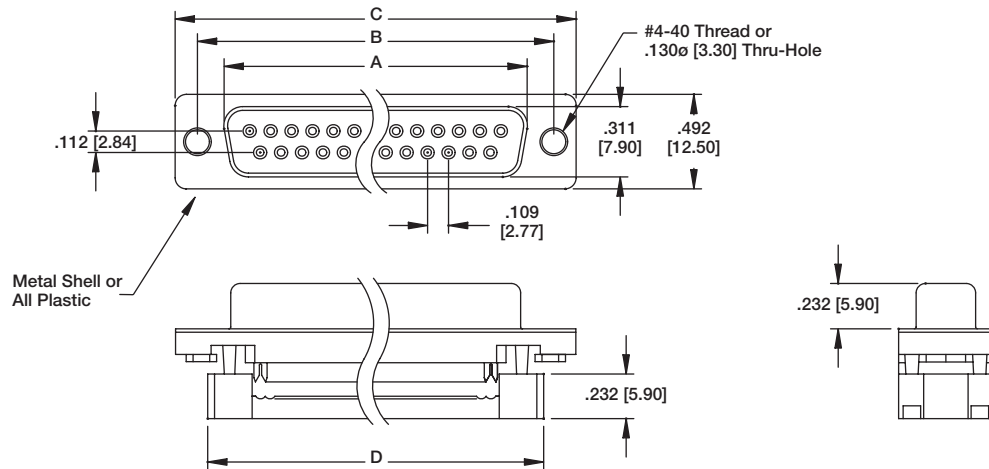
Add designator(s) to end of part number

15 = 15 μin. gold in contact area
 30 = 30 μin. gold in contact area
 BU = Blue color insulator

PLUG



SOCKET



Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.883 [22.44]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.213 [30.81]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.755 [44.57]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.414 [61.32]

INTRODUCTION:

Adam Tech Solder Cup D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions, they are an excellent choice for a low cost industry standard connection. These connectors are manufactured with precision stamped contacts, and offer a wide selection of mating and mounting options. Adam Tech Solder Cup connectors can be soldered to cable ends or mounted directly to a PCB card edge.

FEATURES:

- Cable or edge card mounting
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

- Insulator: PBT, 30% glass reinforced, rated UL94V-0
- Insulator Colors: Black (White optional)
- Contacts: Phosphor Bronze
- Shell: Steel, Tin or Zinc plated
- Hardware: Brass, Nickel plated

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

- Operating voltage: 250V AC / DC max.
- Current rating: 5 Amps max.
- Contact resistance: 20 mΩ max. initial
- Insulation resistance: 5000 MΩ min.
- Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

- Insertion force: 0.75 lbs max
- Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -55°C to +105°C

PACKAGING:

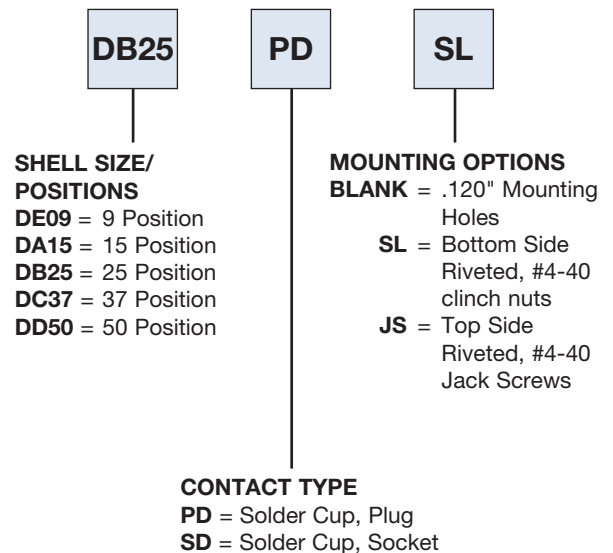
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION



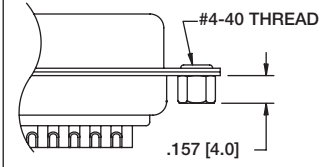
OPTIONS:

Add designator(s) to end of part number

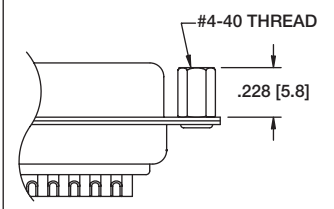
- 15** = 15 μin gold plating in contact area
- 30** = 30 μin gold plating in contact area
- WT** = White Color Insulator



MOUNTING OPTIONS

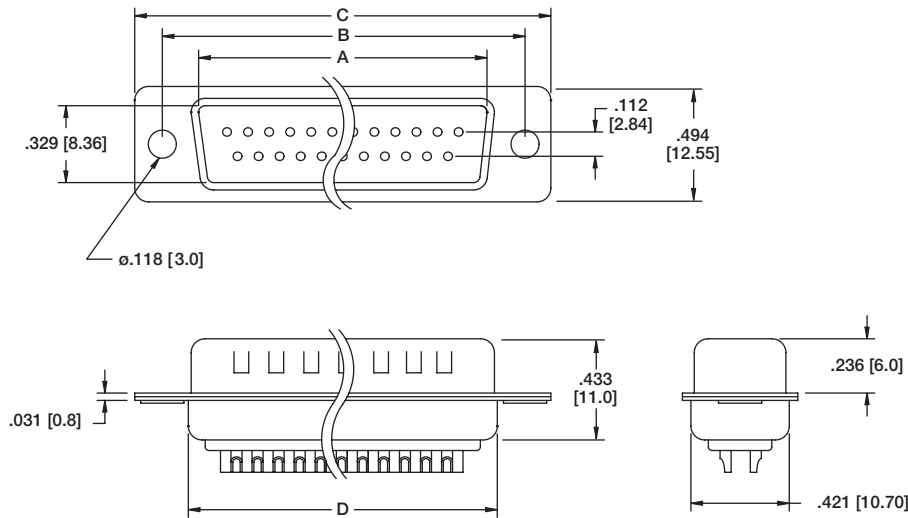


SL Option
Bottom side riveted #4-40
Clinch Nuts

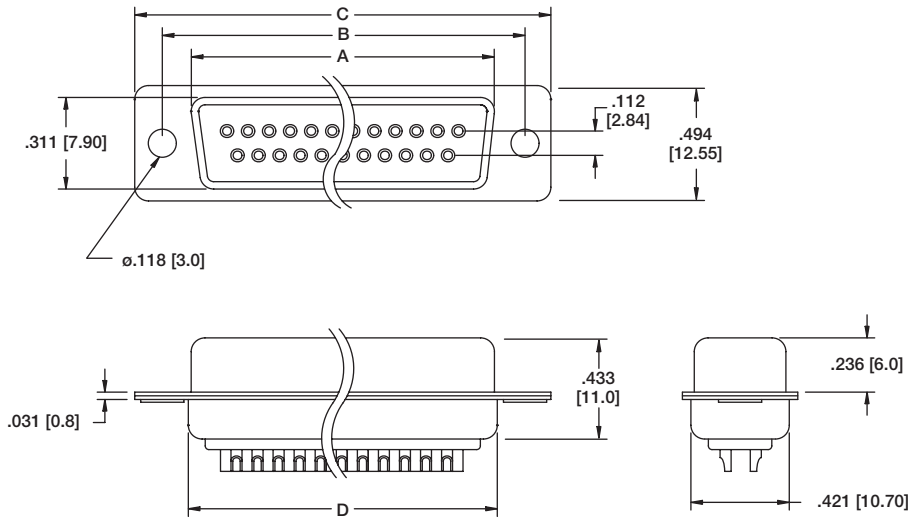


JS Option
Top side riveted #4-40
Jack Screws

PLUG



SOCKET



Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.756 [19.20]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.091 [27.70]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.618 [41.10]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.256 [57.30]
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]	2.169 [55.10]

INTRODUCTION:

Adam Tech Crimp and Poke D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are a low cost alternative to soldering a connector to cable. Contacts are crimped onto discrete wires and pushed into the connector body. The connector is comprised of a metal shell and plastic insulator and is available with a variety of mating options. The contacts are precision stamped and are available in a variety of platings.

FEATURES:

- Low cost no solder alternative
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0
 Insulator Color: Black
 Contacts: Phosphor Bronze
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -55°C to +105°C

PACKAGING:

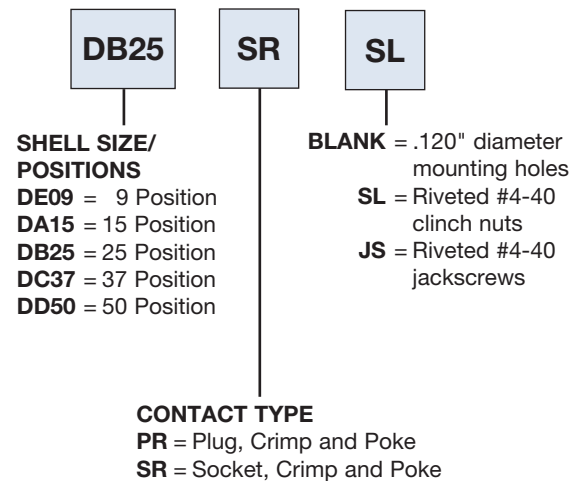
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

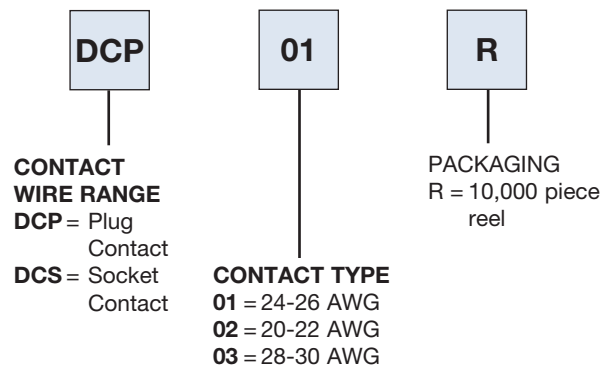
UL Recognized File no. E224053



ORDERING INFORMATION HOUSING



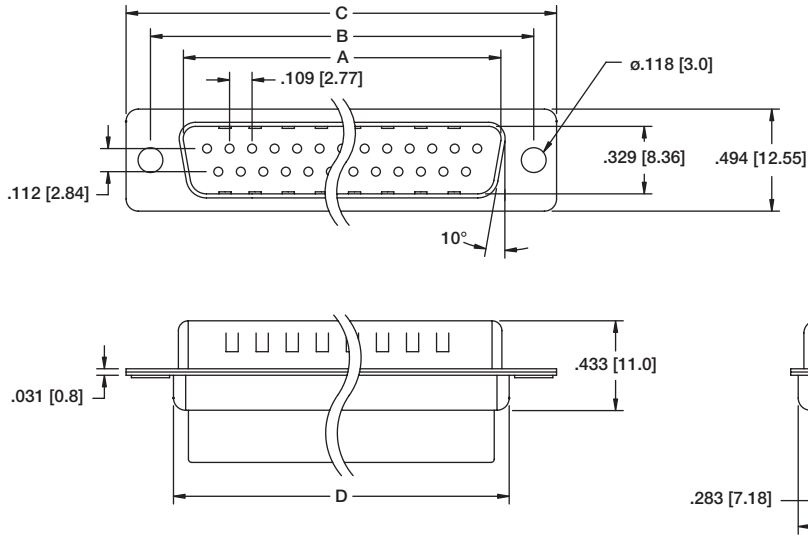
CONTACTS



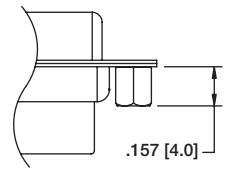
OPTIONS:

Add designator(s) to end of part number
15 = 15 μin gold plating in contact area on crimp contacts
30 = 30 μin gold plating in contact area on crimp contacts

PLUG HOUSING

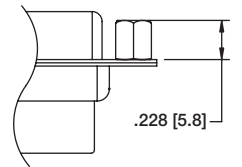
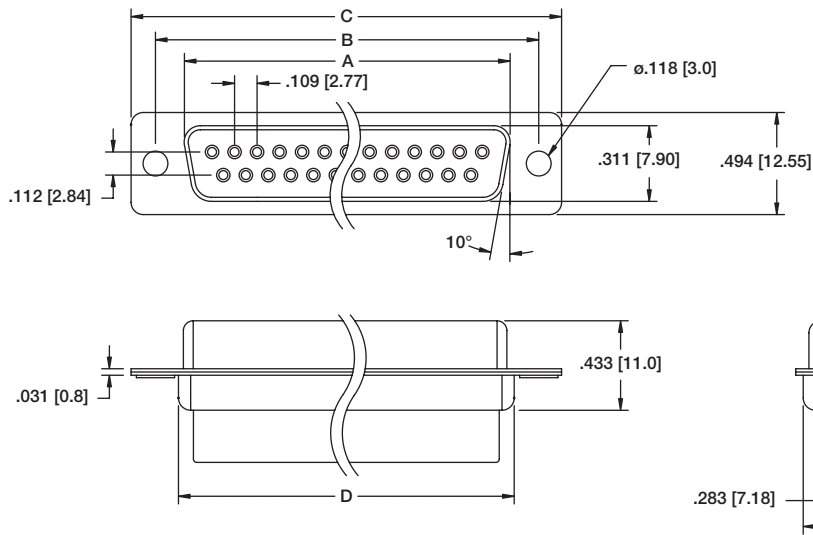


MOUNTING OPTIONS



SL Option
Bottom side riveted #4-40
Clinch Nuts

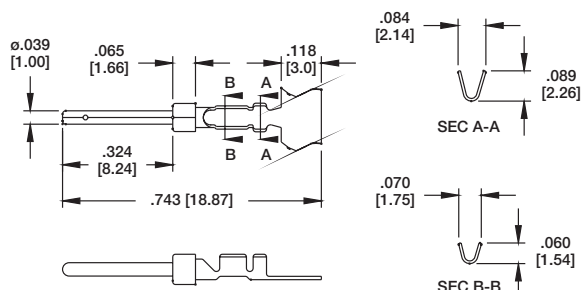
SOCKET HOUSING



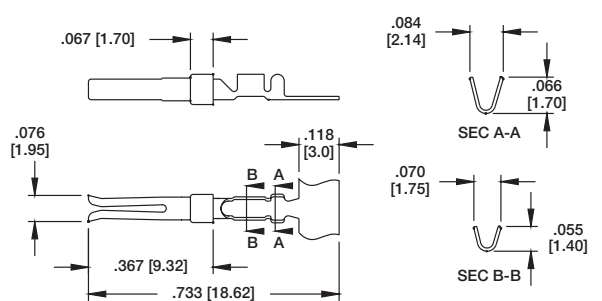
JS Option
Top side riveted #4-40
Jack Screws

See Dimension table pg. 77

PLUG CRIMP CONTACTS



SOCKET CRIMP CONTACTS



INTRODUCTION:

Adam Tech Flush Mount Straight PCB tail D-Sub connectors are a popular interface for many limited space I/O applications. Offered in 9, 15 and 25 positions they are an excellent choice for a low cost industry standard connection and are ideal for low profile design requirements. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Low profile space saving design
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T
 Insulator Color: Black
 Contacts: Phosphor Bronze
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 mΩ max. Initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -55°C to +105°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION

DB25

SA

M2

SHELL SIZE/ POSITIONS

DE09 = 9 Position
DA15 = 15 Position
DB25 = 25 Position
DC37 = 37 Position

CONTACT TYPE

PA = Plug, Flush mount,
Straight PCB Tail
SA = Socket, Flush Mount,
Straight PCB Tail

MOUNTING OPTIONS

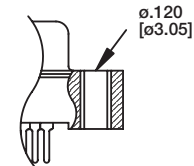
M1 = Thru Hole Mounting
M2 = #4-40 Threaded
mounting holes
M1-R3 = Round Jackscrews
on top side
M2-R-BL = Round Jackscrews
on top side with
Boardlocks
underneath
M2-JS = #4-40 Threaded
Holes with removable
Jackscrews
M2-BL = Riveted #4-40
Internal Threaded
Standoffs with
Boardlocks
M2-BL-JS = Removable
Jackscrews with
Boardlocks

OPTIONS:

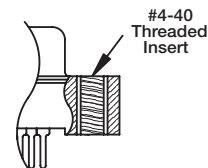
Add designator[s] to end of part number
15 = 15 μin gold plating in contact area
30 = 30 μin gold plating in contact area
PF = Press Fit Pins
HT = Hi-Temp insulator for hi-temp soldering
processes up to 260°C

MOUNTING OPTIONS

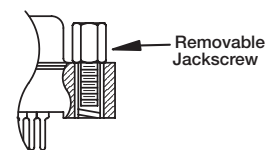
M1 Option
Thru-Hole
Mounting



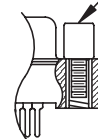
M2 OPTION
Threaded Hole
Mounting



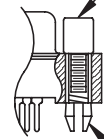
M2-JS
Threaded Hole
Mounting with
removable
Jack Screws



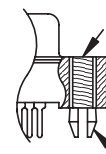
M1-R3
Round
Jackscrews



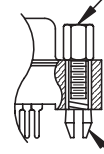
M2-R-BL
Round Jackscrews
with Boardlock



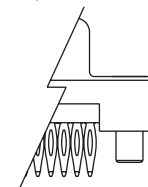
M2-BL
#4-40 Threaded
Insert with Boardlock



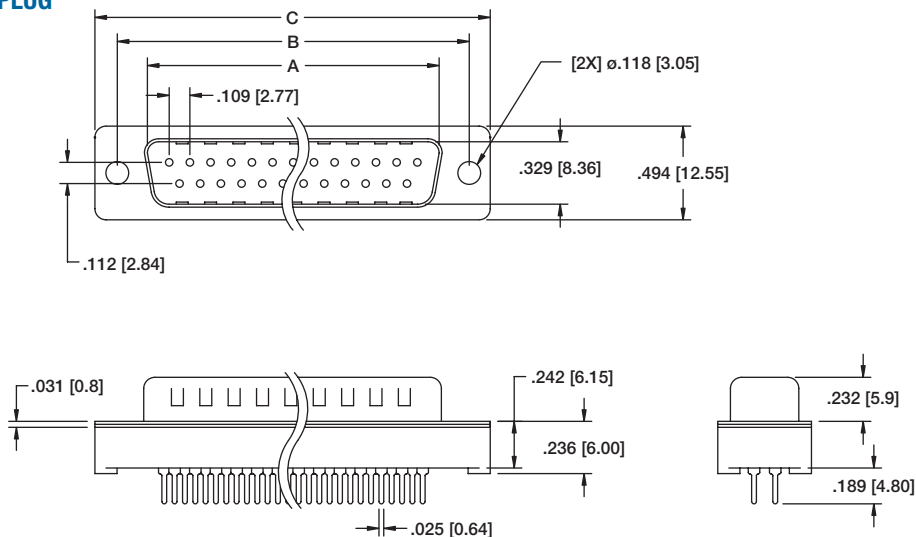
M2-BL-JS
Removable Jackscrew
with Boardlock



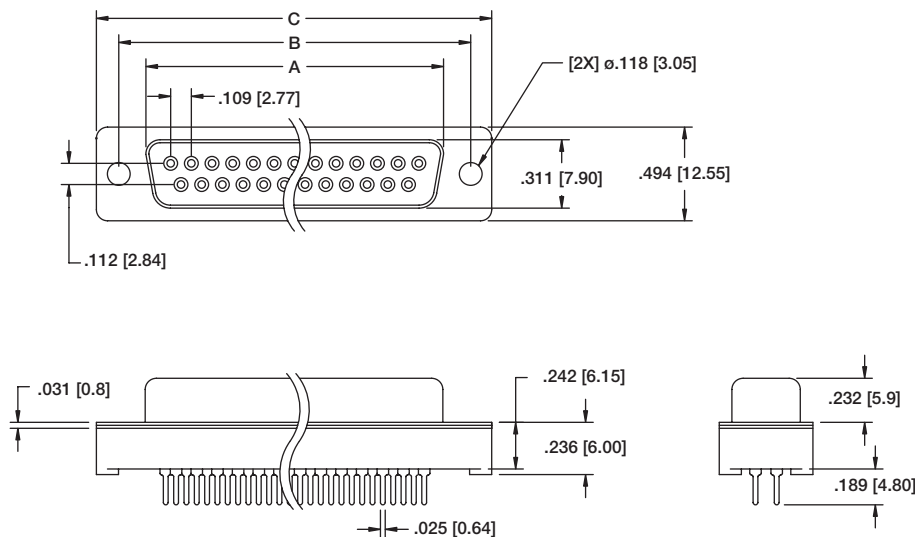
**Press
Fit PCB Tail
Option**



PLUG

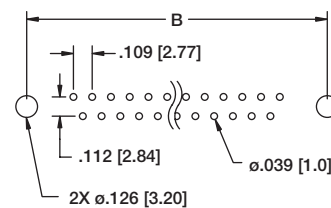


SOCKET



Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS	
	A	A	B	C
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]



Recommended PCB Layout

INTRODUCTION:

Adam Tech Straight PCB tail D-Sub connectors are a popular interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are an excellent choice for a low cost, sturdy, full metal body industry standard connection. These connectors are manufactured with precision stamped or machined turned contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T
 Insulator Colors: Black (White optional)
 Contacts: Phosphor Bronze
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min

Temperature Rating:

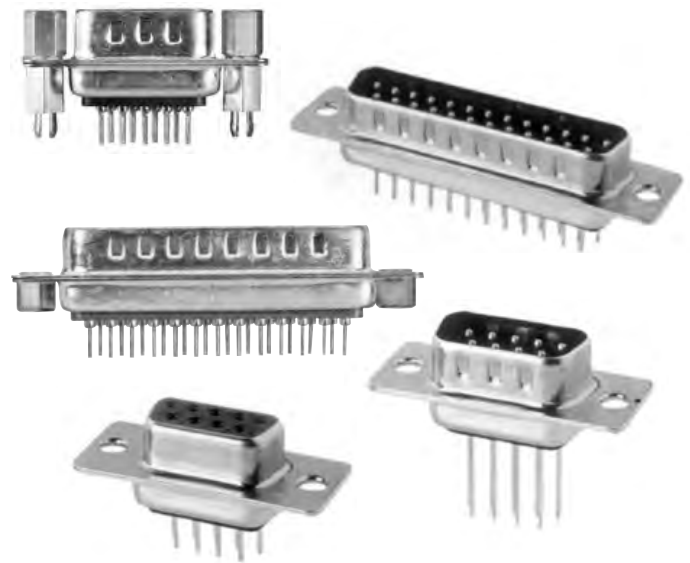
Operating temperature: -55°C to +105°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION



SHELL SIZE/ POSITIONS

DE09 = 9 Position
DA15 = 15 Position
DB25 = 25 Position
DC37 = 37 Position
DD50 = 50 Position

CONTACT TYPE

PT = Plug, Straight PCB Tail, Standard Profile
ST = Socket, Straight PCB Tail, Standard Profile
PE = Plug, Straight PCB Tail, High Profile
SE = Socket, Straight PCB Tail, High Profile

TAIL LENGTH

1 = Standard tail length for .062"-.125" PCB's
 (E = .189")
2 = Wire wrap tail
 (E = .512")

MOUNTING OPTIONS

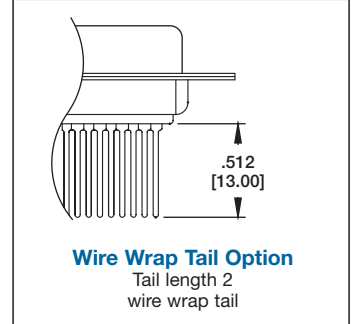
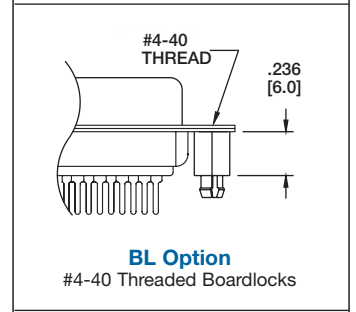
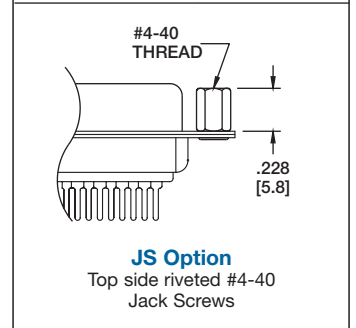
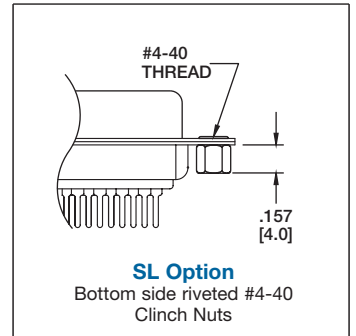
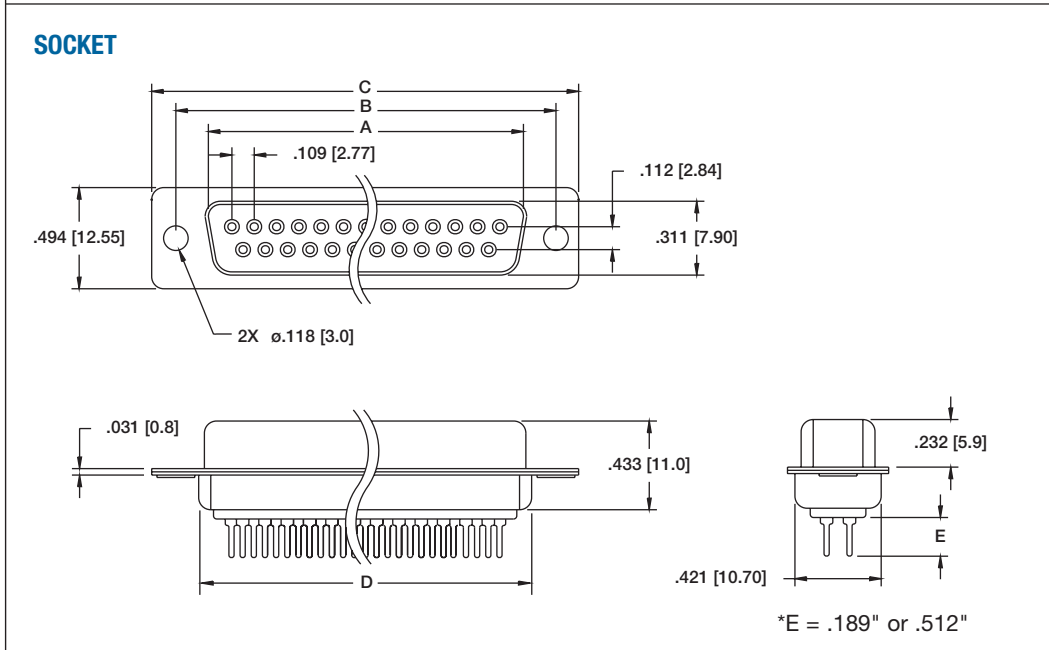
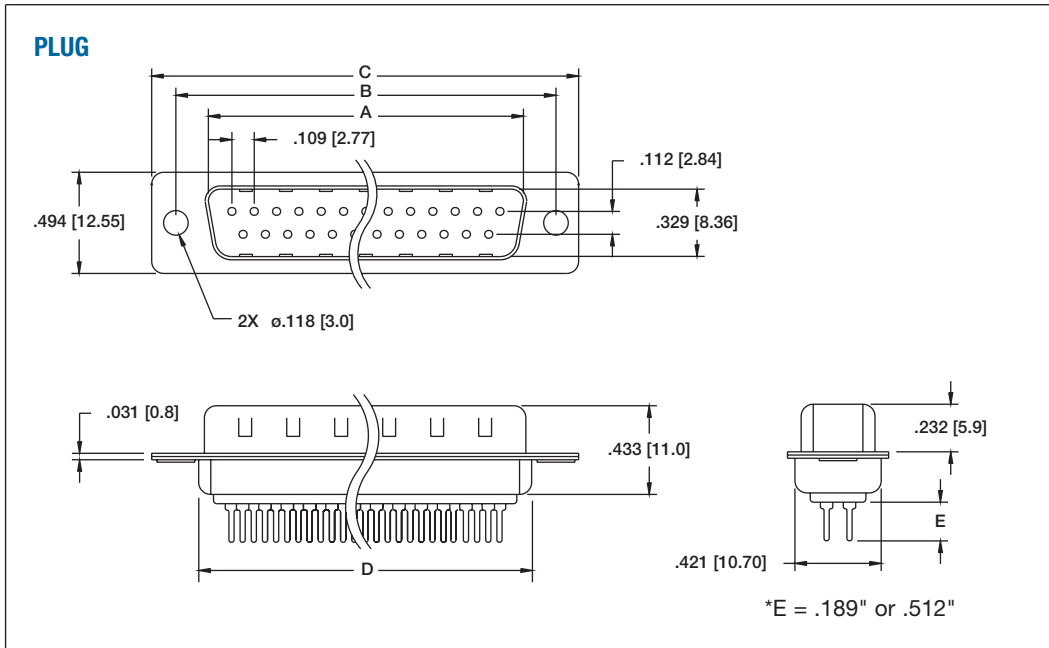
BLANK = .120" Mounting Holes
SL = Bottom side riveted #4-40 Clinch Nuts
JS = Top side riveted #4-40 Jackscrews
BL = Riveted #4-40 Internal Threaded Standoffs with Boardlocks
R = Riveted Round Jack Screws
JSL = Bottom side riveted #4-40 Clinch Nuts with Jack Screws installed

OPTIONS:

Add designator(s) to end of part number
EMI = Ferrite filtered version for EMI / RFI suppression (Page 114)
HT = Hi-Temp insulator for hi-temp soldering processes up to 260°C

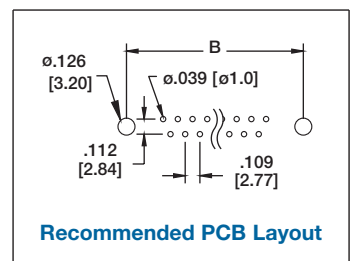


MOUNTING OPTIONS



Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.756 [19.20]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.091 [27.70]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.618 [41.10]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.256 [57.30]
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]	2.169 [55.10]



MOUNTING OPTIONS

PLUG

DB25-PE-1

SL Option
Bottom side riveted #4-40
Clinch Nuts

JS Option
Top side riveted #4-40
Jack Screws

BL OPTION
#4-40 Threaded Boardlocks

SOCKET

DB25-SE-1

Recommended PCB Layout

Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.756 [19.20]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.091 [27.70]
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.618 [41.10]
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.256 [57.30]
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]	2.169 [55.10]

INTRODUCTION:

Adam Tech Dual Port D-Sub connectors are a popular space saving interface for many I/O applications. Offered in 9, 15, 25, 37 and 50 positions they are a good choice for a low cost industry standard connection and are ideal for PCB space saving applications. These connectors are manufactured with precision stamped contacts and are available in a number of connector combinations including same and mixed gender, mixed density and mixed interface. Options include a choice of contact plating and a variety of mating, mounting and grounding options.

FEATURES:

- Stacked space saving design
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech D-Subminiatures and all industry standard D-Subminiature connectors.

SPECIFICATIONS:

Material:

Insulator: PBT, 30% glass reinforced, rated UL94V-0
 Insulator Color: Black
 Contacts: Phosphor Bronze
 Shell: Steel, Tin or Zinc plated
 Hardware: Brass, Nickel plated

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

Operating voltage: 250V AC / DC max.
 Current rating: 5 Amps max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
 Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -55°C to +105°C

PACKAGING:

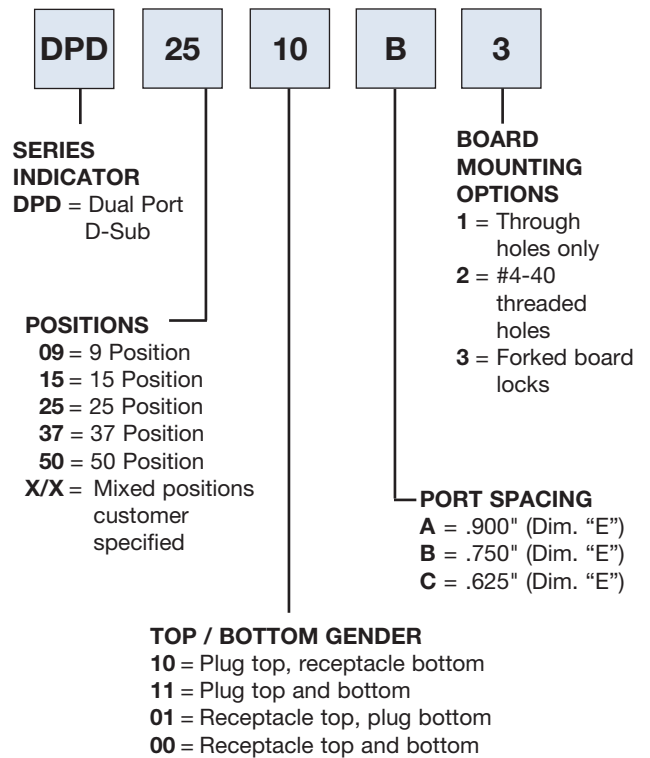
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



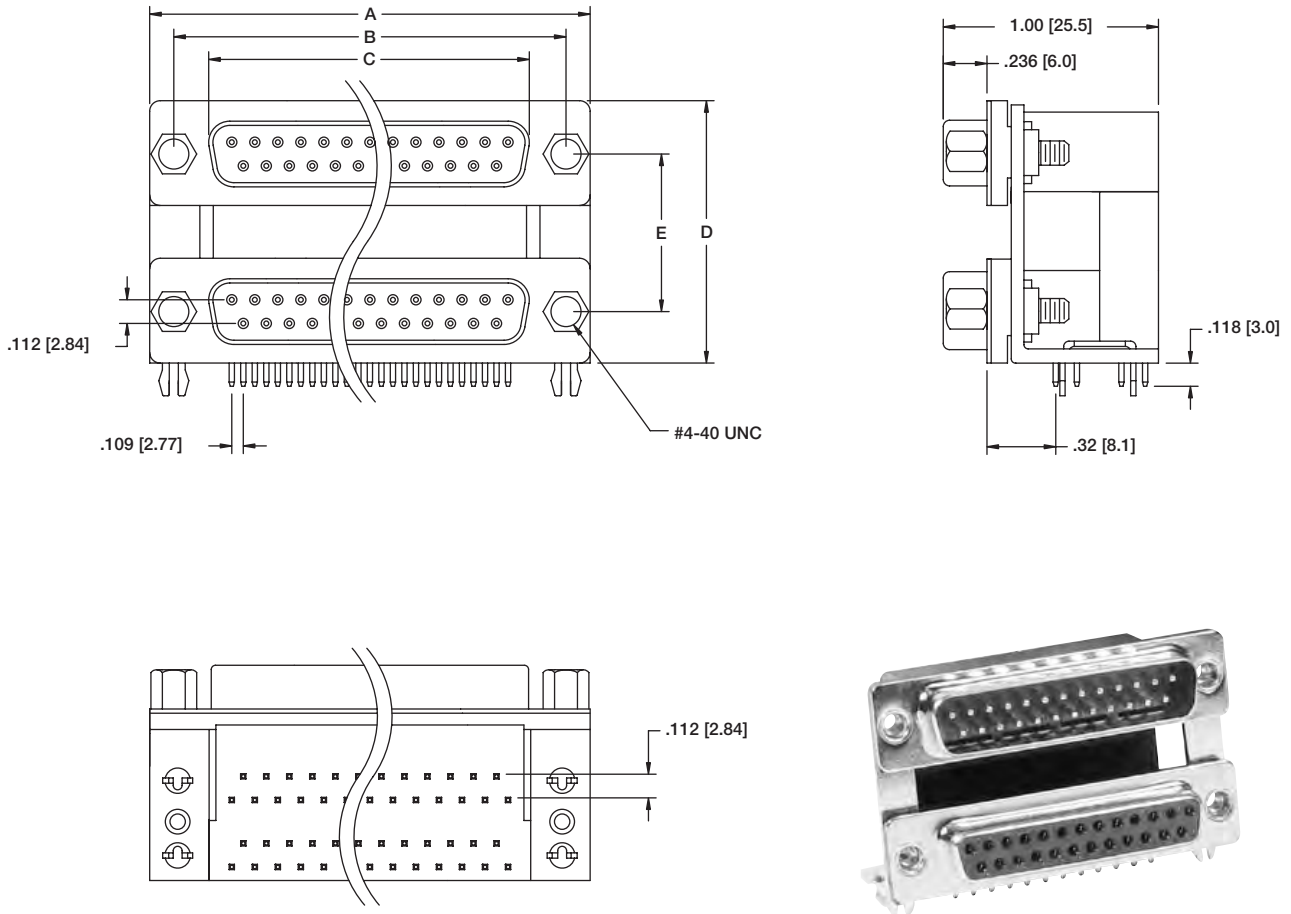
ORDERING INFORMATION



OPTIONS:

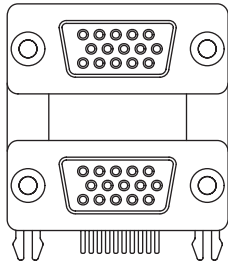
Add designator(s) to end of part number
 15 = 15 μin gold plating in contact area
 30 = 30 μin gold plating in contact area
 JS = #4-40 Jackscrews installed
 R = Rear boardlocks only

DUAL PORT, RIGHT ANGLE

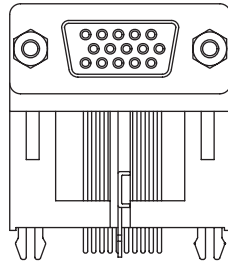


Unit: Inch [mm]

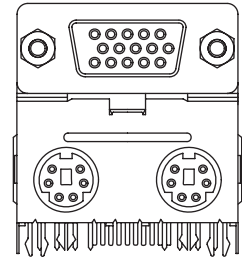
Positions	PLUG	SOCKET	DIMENSIONS			
	A	A	B	C	D	E
9	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	PORT HEIGHTS 1.119 [28.42] 1.244 [31.60] 1.394 [35.41]	PORT TO PORT CENTERLINE .900 [22.86] .750 [19.05] .625 [15.88]
15	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]		
25	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]		
37	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]		
50	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.637 [67.00]		



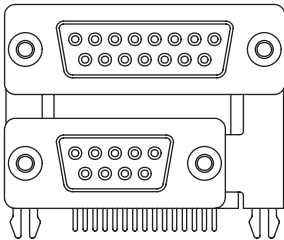
15P HD D-Sub over 15P HD D-Sub



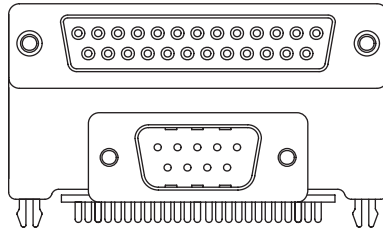
15P HD D-Sub Elevated



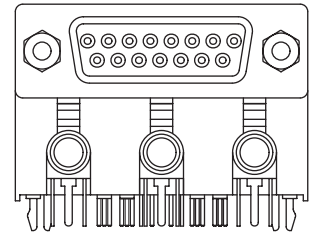
15P HD D-Sub over Dual Mini DINs



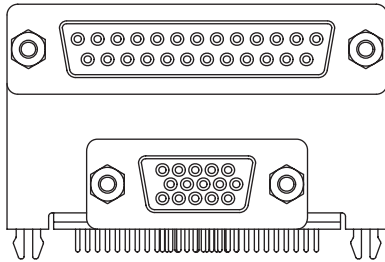
15P D-Sub over 9P D-Sub



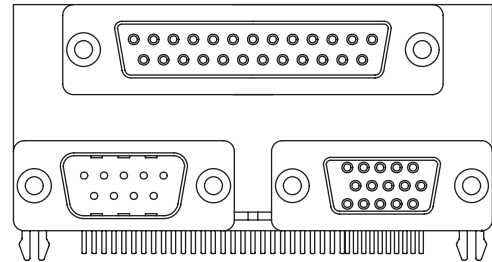
25P D-Sub over 9P D-Sub



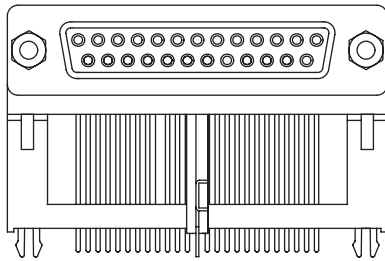
15P D-Sub over Ganged Stereo Jacks



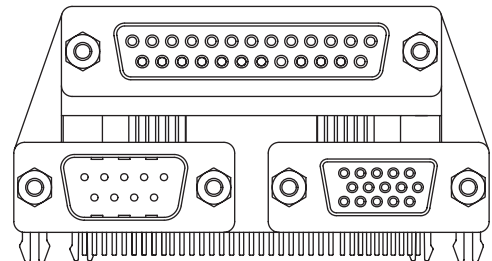
25P D-Sub over HD 15P D-Sub



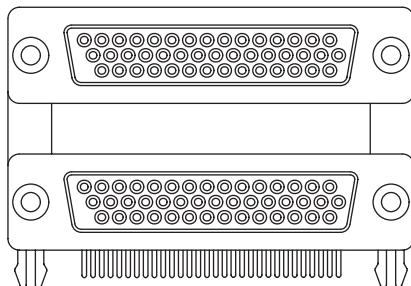
25P D-Sub over 9P D-Sub & HD 15P D-Sub



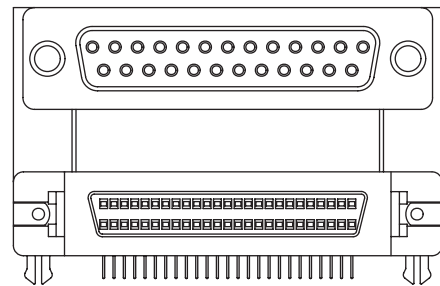
25P D-Sub Elevated



25P D-Sub over 9P D-Sub & HD 15P D-Sub



44P HD D-Sub over 44P HD D-Sub



25P D-Sub over 50P SCSI II

INTRODUCTION:

Adam Tech Solder Cup High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions, they are a good choice for a low cost industry standard high density connection. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- High Density pin count in standard size shell
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Mating and mounting options

MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

SPECIFICATIONS:

Material:

- Insulator: PBT, 30% glass reinforced, rated UL94V-0
- Insulator Colors: Black (White optional)
- Contacts: Phosphor Bronze
- Shell: Steel, Tin or Zinc plated
- Hardware: Brass, Nickel plated

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

- Operating voltage: 250V AC / DC max.
- Current rating: 5 Amps max.
- Contact resistance: 20 mΩ max. initial
- Insulation resistance: 5000 MΩ min.
- Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

- Insertion force: 0.75 lbs max
- Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -55°C to +105°C

PACKAGING:

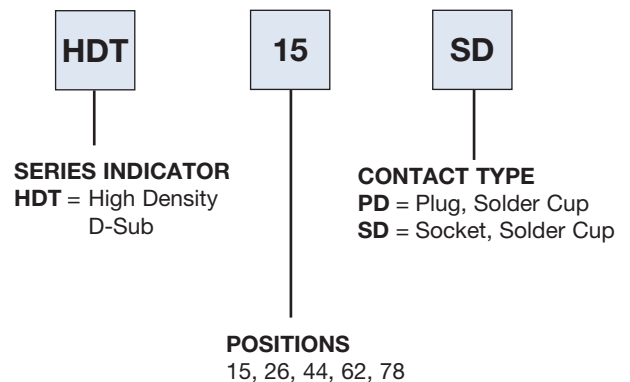
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number

15 = 15 μin gold plating in contact area

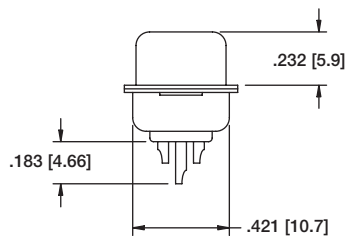
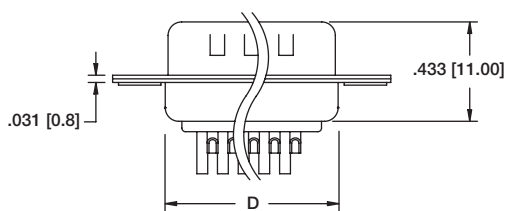
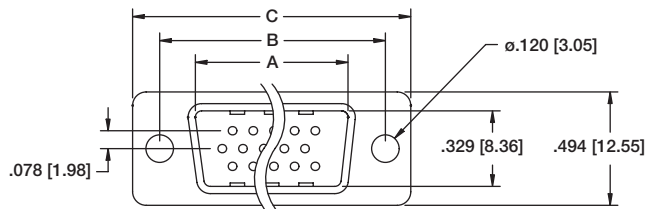
30 = 30 μin gold plating in contact area

WT = White color insulator

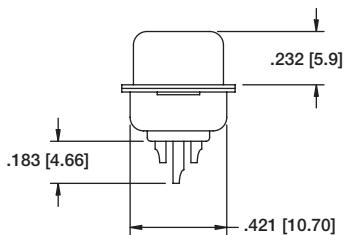
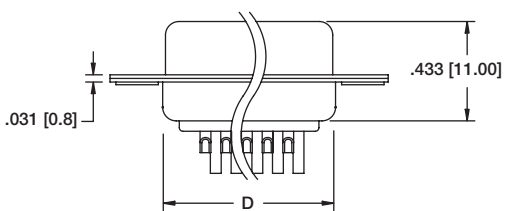
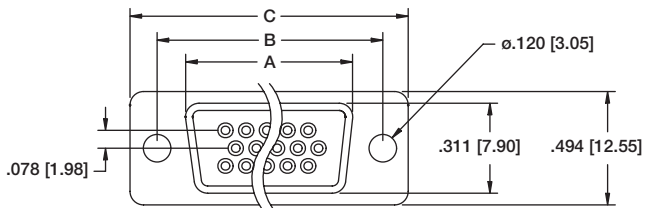
SL = Bottom side Riveted #4-40 Clinch Nuts

JS = Top side riveted #4-40 Jack Screws

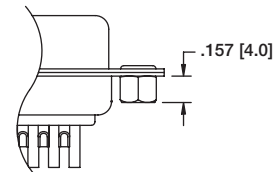
PLUG



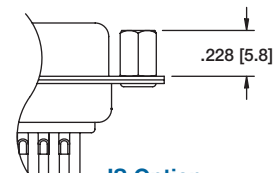
SOCKET



MOUNTING OPTIONS



SL Option
Bottom side riveted #4-40
Clinch Nuts



JS Option
Top side riveted #4-40
Jack Screws

Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
15	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.759 [19.28]
26	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.083 [27.51]
44	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.626 [41.30]
62	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.271 [57.70]
78	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.635 [66.93]	2.099 [55.32]

INTRODUCTION:

Adam Tech Straight PCB tail High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions they are a good choice for a low cost industry standard high density connection. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- High Density pin count in standard size shell
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T rated UL94V-0
Insulator Colors: Black (White optional)
Contacts: Phosphor Bronze
Shell: Steel, Tin or Zinc plated
Hardware: Brass, Nickel plated

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

Operating voltage: 250V AC / DC max.
Current rating: 5 Amps max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max
Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

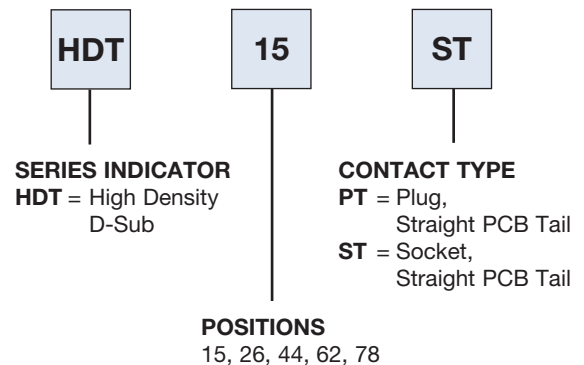
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

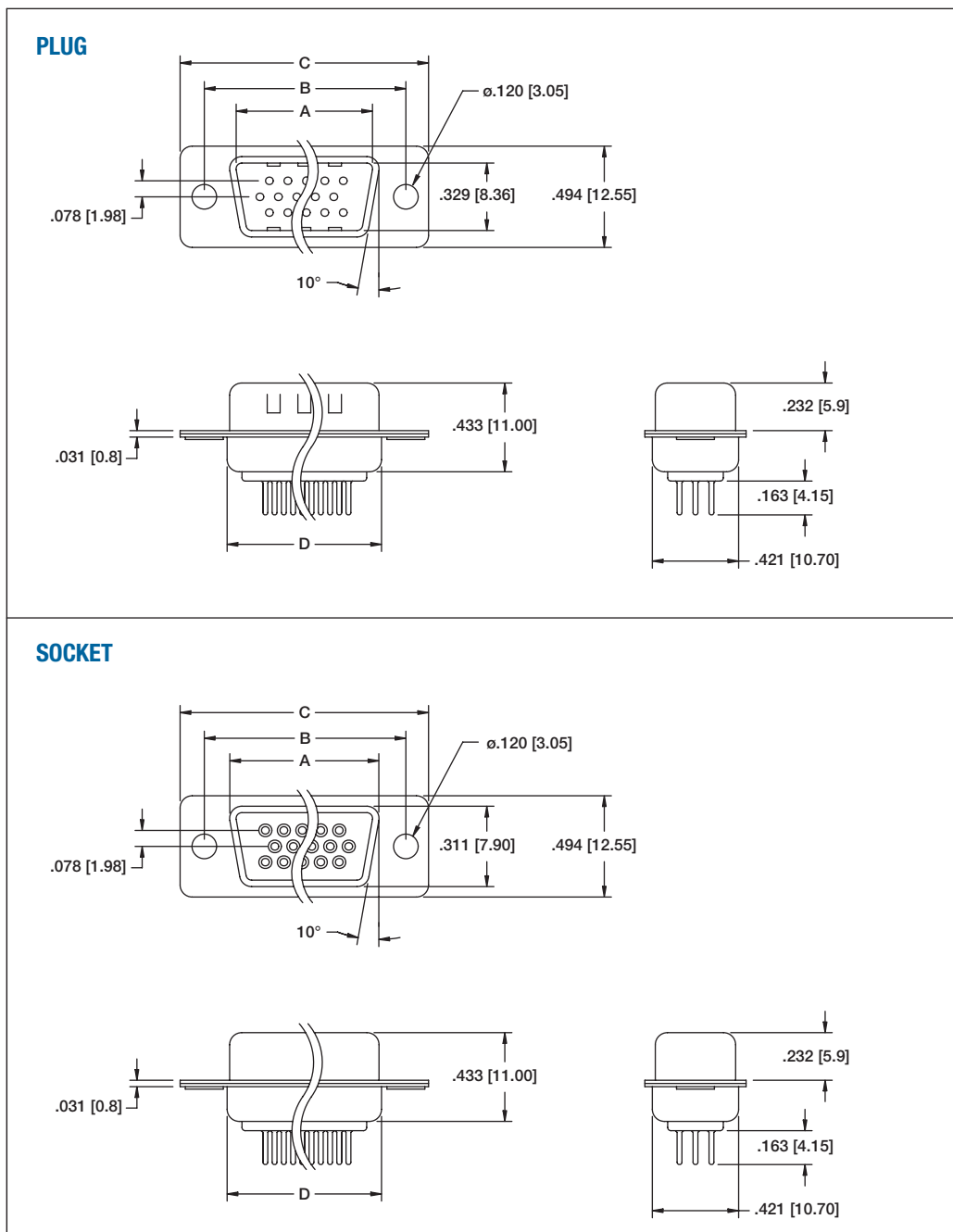


ORDERING INFORMATION

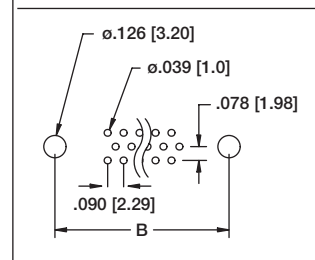
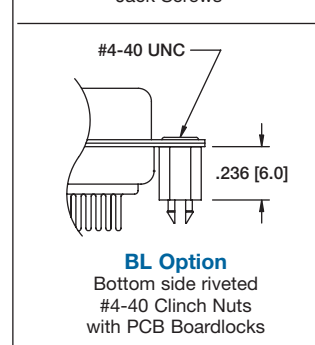
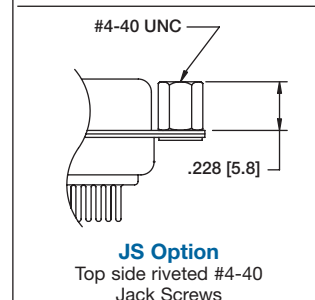
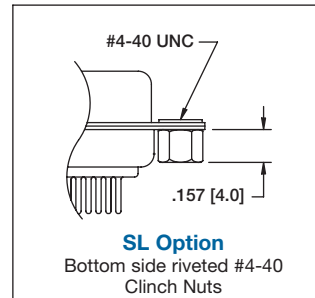


OPTIONS:

Add designator(s) to end of part number
WT = White color insulator
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C
SL = Riveted #4-40 Clinch Nuts
JS = Riveted #4-40 Jackscrews
BL = Riveted #4-40 Internal Threaded Standoffs with Boardlocks
EMI = Ferrite filtered version for EMI / RFI suppression (Page 98)



MOUNTING OPTIONS



Recommended PCB Layout

Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
15	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.759 [19.28]
26	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.083 [27.51]
44	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.626 [41.30]
62	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.271 [57.70]
78	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.635 [66.93]	2.099 [55.32]

INTRODUCTION:

Adam Tech right angle PCB mount High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions they are a good choice for a low cost industry standard high density connection. Adam Tech connectors are manufactured with precision stamped contacts offering a choice of contact plating and a wide selection of mating and mounting options.

FEATURES:

- High Density in standard size shell
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0

Optional Hi-Temp insulator: Nylon 6T rated UL94V-0

Insulator Colors: HDL Series: Black

HDVG Series: Blue

Contacts: Phosphor Bronze

Shell: Steel, Tin or Zinc plated

Hardware: Brass, Nickel plated

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

Operating voltage: 250V AC / DC max.

Current rating: 5 Amps max.

Contact resistance: 20 mΩ max initial

Insulation resistance: 5000 MΩ min.

Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.75 lbs max

Extraction force: 0.44 lbs min

Temperature Rating:

Operating temperature: -55°C to +105°C

Soldering process temperature:

Standard insulator: 235°C

Hi-Temp insulator: 260°C

PACKAGING:

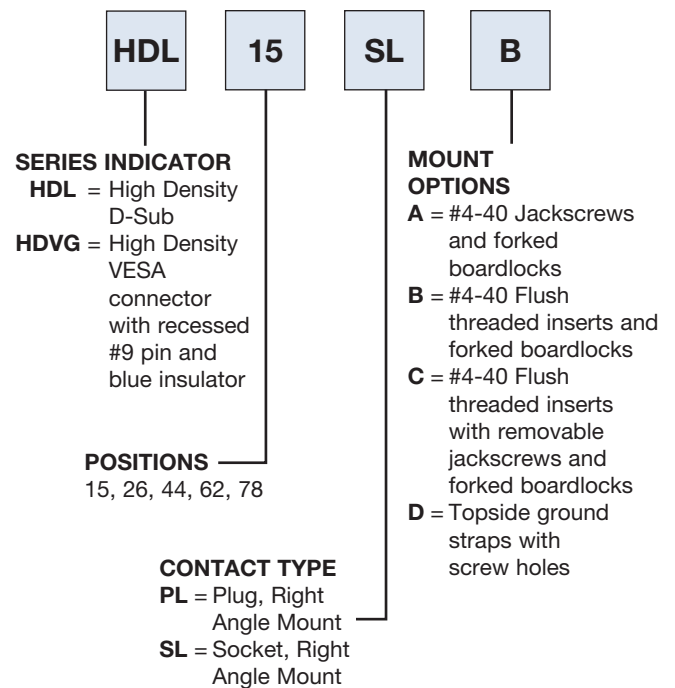
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number

15 = 15 μin gold plating in contact area

30 = 30 μin gold plating in contact area

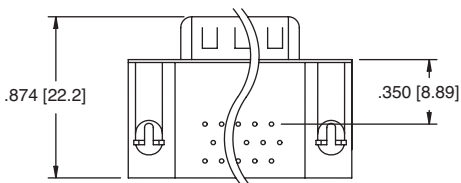
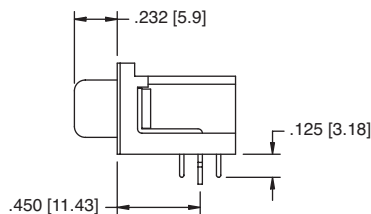
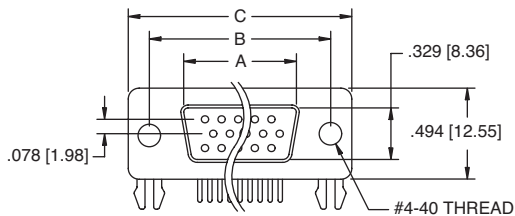
EMI = Ferrite filtered version for EMI / RFI suppression (Page 98)

F = Retention 4 prong boardlocks

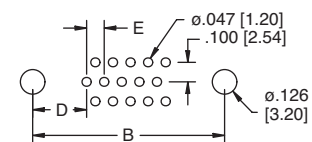
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

R = Round Riveted Jackscrews

PLUG

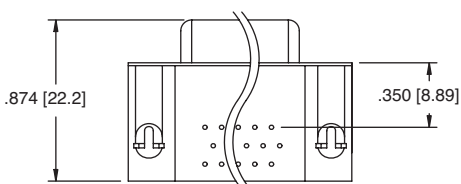
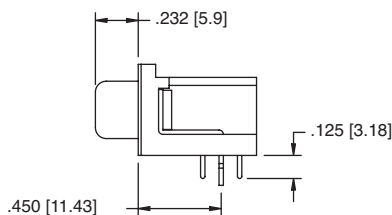
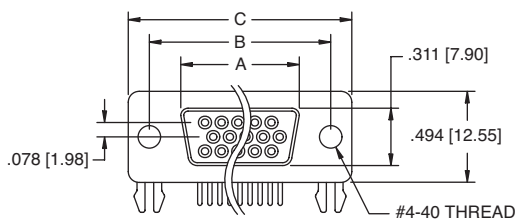


HDL15-PL-B

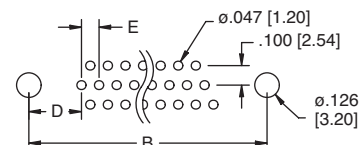


15 Position PCB Layout

SOCKET

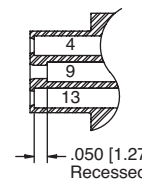


HDL15-SL-B



26, 44, 62 Position PCB Layout

Hi Density Video Graphics Connector



HDVG-15-SL-B

Unit: Inch [mm]

Positions	PLUG	SOCKET	DIMENSIONS			
	A	A	B	C	D	E
15	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.277 [7.04]	.090 [2.29]
26	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	.277 [7.04]	.090 [2.29]
44	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	.277 [7.04]	.090 [2.29]
62	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	.276 [7.00]	.095 [2.41]
78	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.635 [66.93]	.300 [7.63]	.095 [2.41]

INTRODUCTION:

Adam Tech Crimp and Poke High Density D-Sub connectors are a popular interface for many I/O applications. Offered in 15, 26, 44, 62 and 78 positions they are a low cost alternative to soldering a high density connector to cable. Contacts are crimped onto discrete wires and pushed into the connector body. The connector is comprised of a metal shell and plastic insulator and is available with a variety of mating options. The contacts are precision stamped and are available in a variety of platings.

FEATURES:

- High Density in standard size shell
- Low cost no solder alternative
- Industry standard compatibility
- Durable metal shell design
- Precision formed contacts
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech high density D-Subminiatures and all industry standard high density D-Subminiature connectors.

SPECIFICATIONS:

Material:

- Insulator: PBT, 30% glass reinforced, rated UL94V-0
- Insulator Colors: Black (White optional)
- Contacts: Phosphor Bronze
- Shell: Steel, Tin or Zinc plated
- Hardware: Brass, Nickel plated

Contact Plating:

Gold over Nickel underplate on contact area.

Electrical:

- Operating voltage: 250V AC / DC max.
- Current rating: 5 Amps max.
- Contact resistance: 20 mΩ max. initial
- Insulation resistance: 5000 MΩ min.
- Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

- Insertion force: 0.75 lbs max
- Extraction force: 0.44 lbs min
- Recommended wire size: 22 to 28 Awg
- Temperature Rating:
- Operating temperature: -55°C to +105°C

PACKAGING:

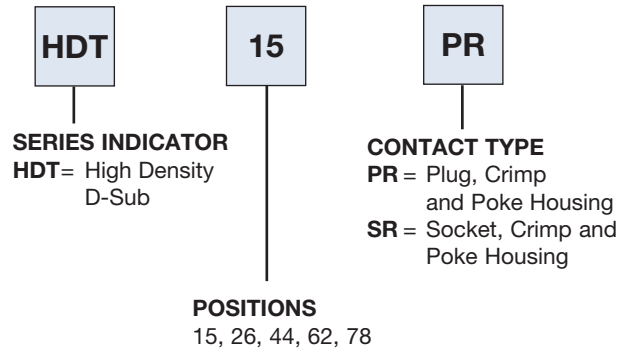
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

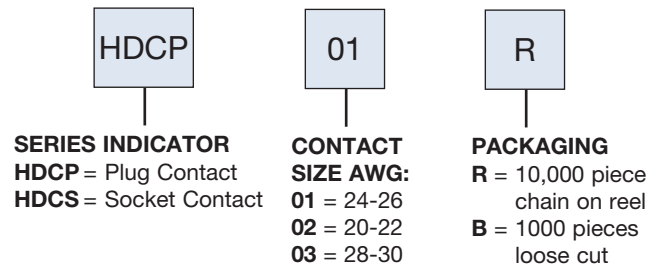
UL Recognized File no. E224053



ORDERING INFORMATION HOUSING



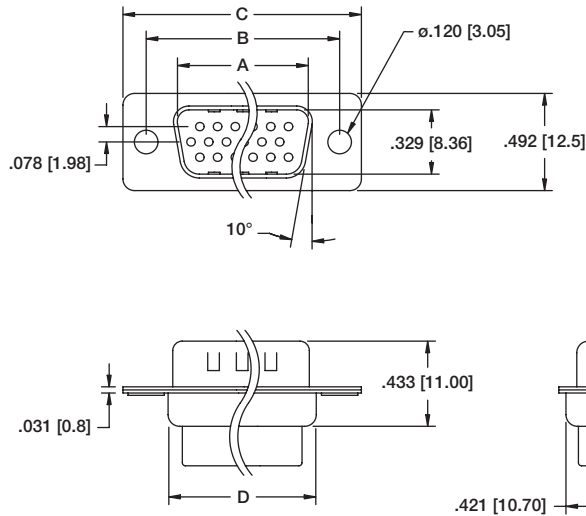
CRIMP CONTACT



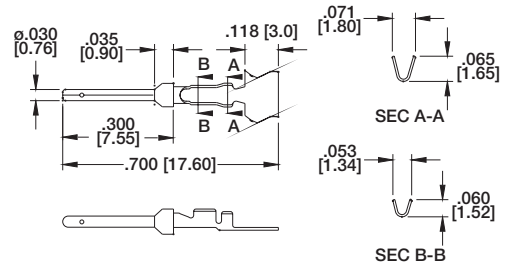
OPTIONS:

- Add designator(s) to end of part number
- 15 = 15 μin gold plating in contact area
- 30 = 30 μin gold plating in contact area
- WT = White color insulator.
- SL = Riveted #4-40 Clinch Nuts
- JS = Riveted #4-40 Jackscrews

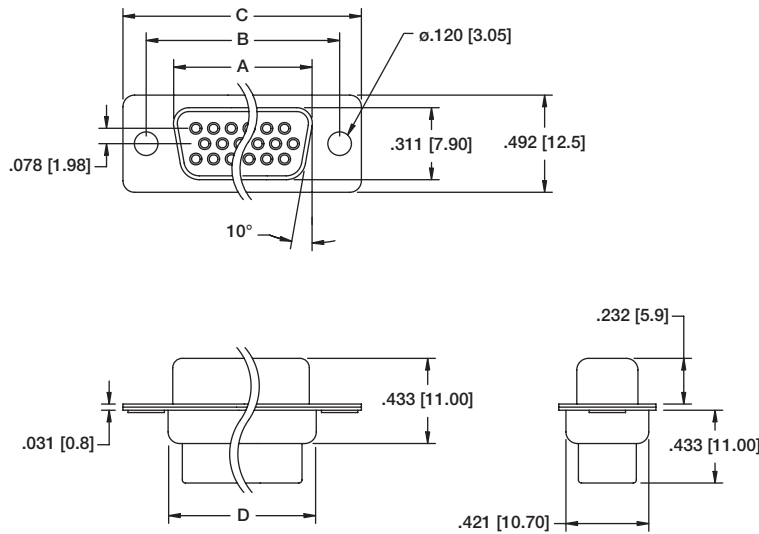
PLUG



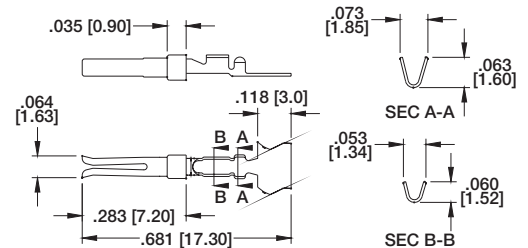
Plug Contact



SOCKET

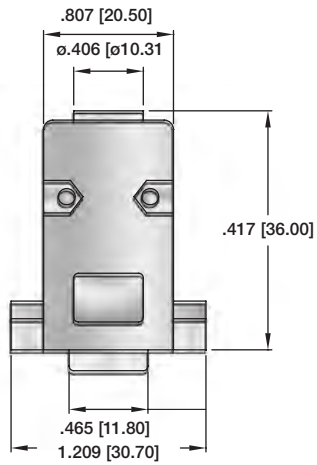


Socket Contact

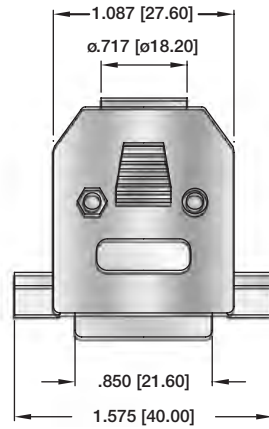


Unit: Inch [mm]

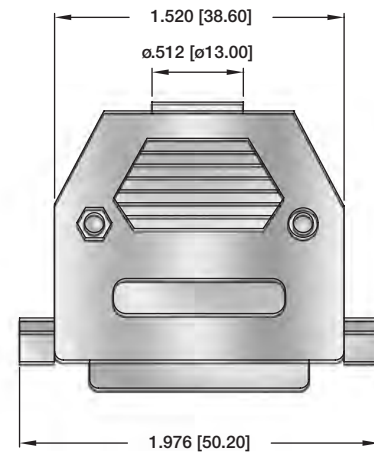
Positions	PLUG	SOCKET	DIMENSIONS		
	A	A	B	C	D
15	.666 [16.92]	.643 [16.33]	.984 [24.99]	1.213 [30.81]	.759 [19.28]
26	.994 [25.25]	.971 [24.66]	1.312 [33.32]	1.541 [39.14]	1.083 [27.51]
44	1.534 [38.96]	1.511 [38.38]	1.852 [47.04]	2.088 [53.04]	1.626 [41.30]
62	2.182 [55.43]	2.159 [54.84]	2.500 [63.50]	2.729 [69.32]	2.271 [57.70]
78	2.079 [52.81]	2.064 [52.43]	2.406 [61.11]	2.635 [66.93]	2.099 [55.32]



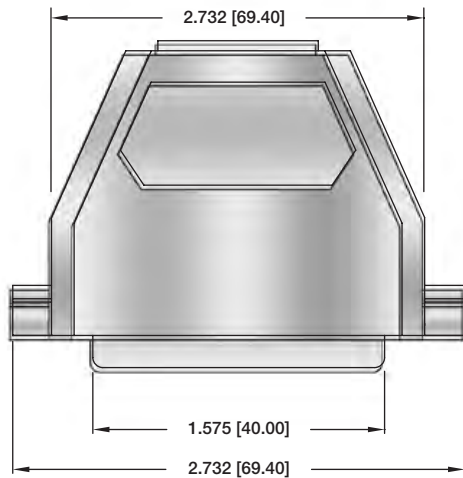
DE09-HD-PN-(SS OR TS)



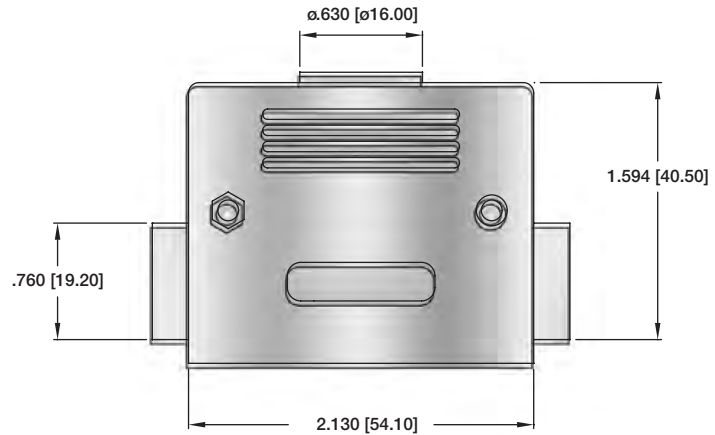
DA15-HD-PN-(SS OR TS)



DB25-HD-PN-(SS OR TS)



DC37-HD-PN-(SS OR TS)

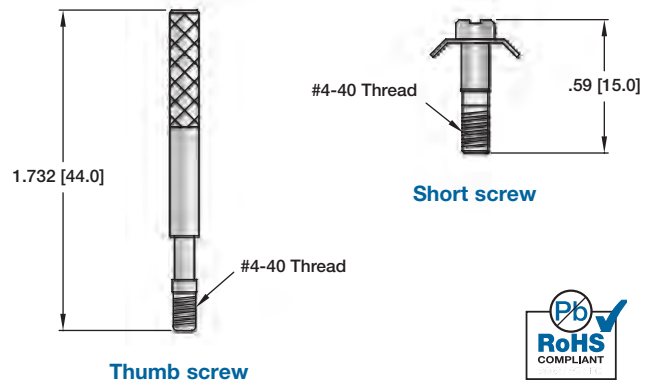


DD50-HD-PN-(SS OR TS)

ORDERING INFORMATION

choose one from each category as shown in sample below

DE09-HD	PY	TS
Hood Size	Hood Color	Hardware
DE09-HD - 9P Hood	PY - Gray Plastic	SS - Short Screw
DA15-HD - 15P Hood	PB - Black Plastic	TS - Thumb Screw
DB25-HD - 25P Hood	PN - Bright Chrome Plated Plastic	
DC37-HD - 37P Hood	AL - Aluminum Cast	
DD50-HD - 50P Hood		

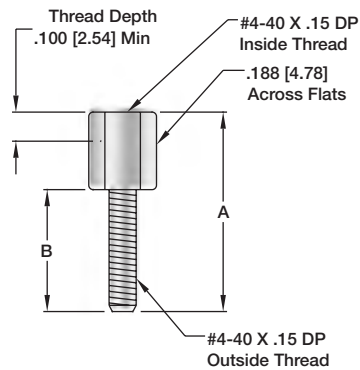


Thumb screw

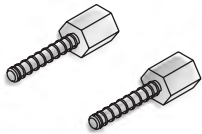
Short screw



Jackscrews

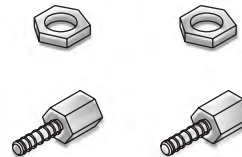


JACKSCREW DIMENSIONS		
PART NUMBER	A	B
JS-01	.416 [10.60]	.226 [5.70]
JS-02	.467 [11.86]	.270 [6.86]
JS-03	.500 [12.70]	.313 [7.95]
JS-04	.465 [11.81]	.226 [5.70]



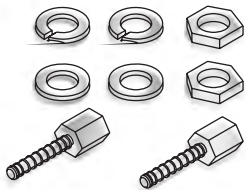
HDW-031

Set includes 2 #4-40 female jackscrews



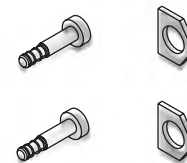
HDW-024

Set includes 2 #4-40 female jackscrews and 2 hex nuts



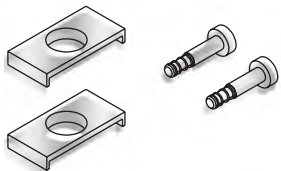
HDW-023

Set includes 2 #4-40 female jackscrews 2 flat washers, 2 split washers and 2 hex nuts



HDW-028

Screw retainer clip set includes 2 screw retainer clips and 2 retainer screws



HDW-029

Screw lock kit includes 2 screw locks and 2 retainer screws



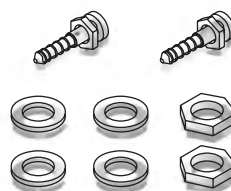
HDW-044

Sliding lock posts
Set of 2



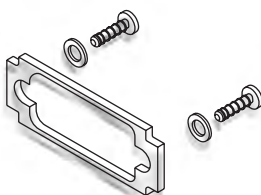
HDW-043A

Slide lock post set includes 2 posts, 2 washers and 2 lock-washers



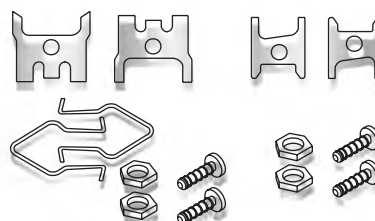
HDW-045

Slide lock post kit includes 2 posts, washers and hex nuts



HDW-043-XX

Slide lock assembly kit includes slide lock, screws and washers, Specify 9, 15, 25 or 37 position



HDW-041

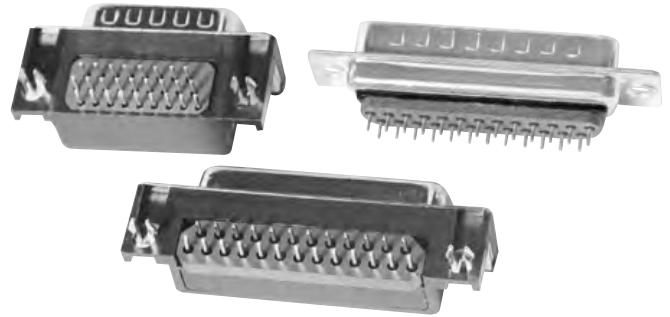
Spring latch set includes 1 pair of spring latches with holding hardware and 1 pair of notch clips with holding hardware

INTRODUCTION:

Adam Tech EMI filtered D-Sub option includes the addition of a high performance Ferrite Filter which surrounds each contact and provides a low cost EMI answer for high frequency interference. Our ferrite filtered D-Subs are direct drop-in replacements with our standard unfiltered D-Subs with the same footprint.

FEATURES:

Direct replacement for standard non-filtered parts
 Low cost alternative to passive component types
 Significant reduction of noise at high frequencies

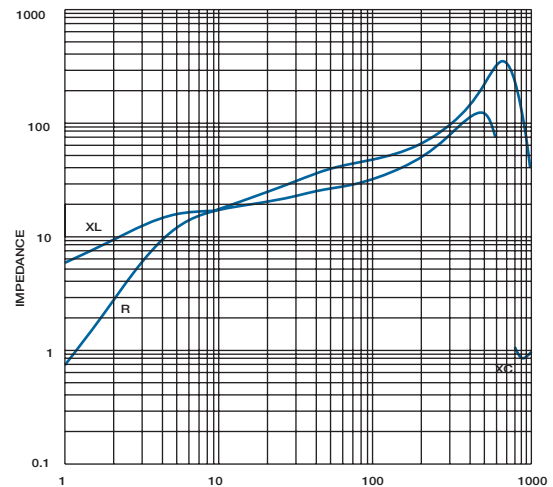


See pgs. 59, 62, 82, 90, 92, for ordering information

AdamTech offers a complete range of ferrite filtered D-Subs to satisfy EMI/RFI emissions in most applications. This series offers filtered connectors in a multitude of terminations, mating and mounting options.

- Drop in replacement for standard D-Subs
- Low applied cost
- Significant reduction of noise at high frequencies

Typical Performance



* Consult factory for specific part number impedance performance.

FREQ (MHZ)

	1	5	10	25	30	40	50	100	200
XC-									
XL-	5.4	15	18	23	25	26	28	34	51
R-	0.656	11	18	29	32	37	40	50	64

	300	400	500	600	700	800	900	1000
XC-					1.27	0.807	0.856	0.977
XL-	73	101	122	57				
R-	84	121	199	342	344	170	77	40

25 Position

FREQ (MHZ)

	1	5	10	25	30	40	50	100	200
XC-									
XL-	4	14	18	22	24	26	27	35	55
R-	0.309	8.4	15	26	29	33	36	46	59

	300	400	500	600	700	800	900	1000
XC-					0.983	0.762	0.851	0.986
XL-	81	115	147	65				
R-	79	119	210	394	356	150	65	34

FREQ (MHZ)

	1	5	10	25	30	40	50	100	200
XC-									
XL-	3.6	15.9	19	24	25	27	28	36	54
R-	0.116	8.4	16	28	31	35	39	49	62

	300	400	500	600	700	800	900	1000
XC-					0.998	0.78	0.864	0.996
XL-	80	112	138	48				
R-	83	124	215	389	339	147	64	33

37 Position

FREQ (MHZ)

	1	5	10	25	30	40	50	100	200
XC-									
XL-	4.9	16	20	25	27	28	30	36	53
R-	0.45	8.4	15	26	29	33	36	46	59

	300	400	500	600	700	800	900	1000
XC-					1.082	0.814	0.879	1
XL-	76	105	122	29				
R-	80	122	224	424	332	131	56	29

INTRODUCTION:

Adam Tech DVI series Digital Visual Interface connectors are the standard digital interface for flat panels, video graphics cards, monitors, and HDTV units. This series includes DVI-D (Digital), DVI-A (Analog) and DVI-I (Integrated Digital/Analog) Their unique crossing ground blades provide high speed performance at low cost. They are available in Straight or Right Angle PCB mount receptacles and mating male cable connectors. They support a data transfer rate of 4.95Gbps with a dielectric withstanding voltage of 500VAC. Each version features our specially designed contacts which improve signal performance and a zinc alloy shield that reduces electromagnetic interference (EMI).

FEATURES:

- Supports Analog and Digital signals
- Offers excellent EMI/RFI performance
- Plug and Play interface
- Supports high bandwidth up to 2.5 GHz analog signal
- Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech DVI connectors and all industry standard DVI connectors.

SPECIFICATIONS:

Material:

Standard insulator: PA66, Glass filled, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T rated UL94V-0
 Insulator Color: White, (Black optional)
 Contacts: Phosphor Bronze
 Shell: Steel, Nickel Plated

Contact Plating:

Gold over Nickel underplate on mating area,
 Tin over Copper underplate on tails

Electrical:

Operating Voltage: 250V AC
 Current Rating: 1.5 Amps max.
 Contact Resistance: 20 mΩ max. initial
 Insulation Resistance: 1000 MΩ min.
 Dielectric Withstanding Voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 10 lb max.
 Withdrawal force: 2.2 lb. min.
 Durability: 100 cycles

Temperature Rating:

Operating Temperature: -20°C to +85°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

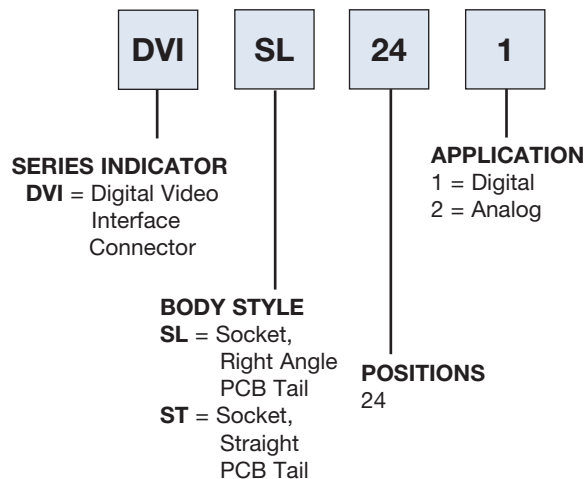
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

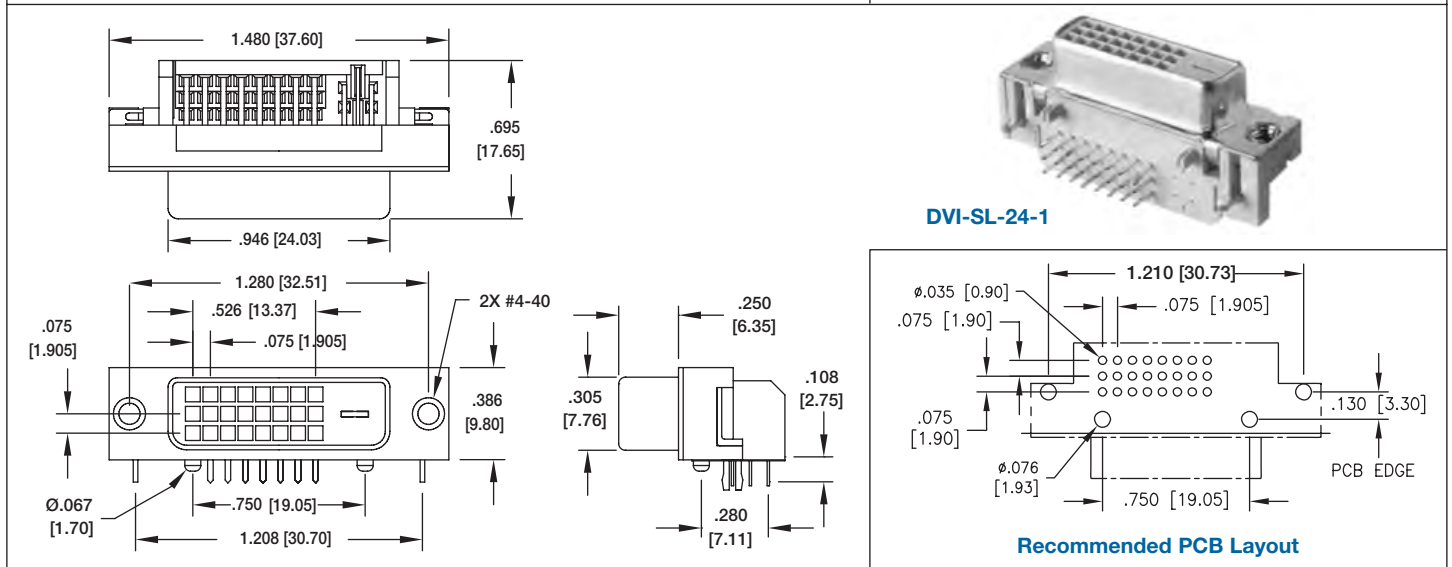
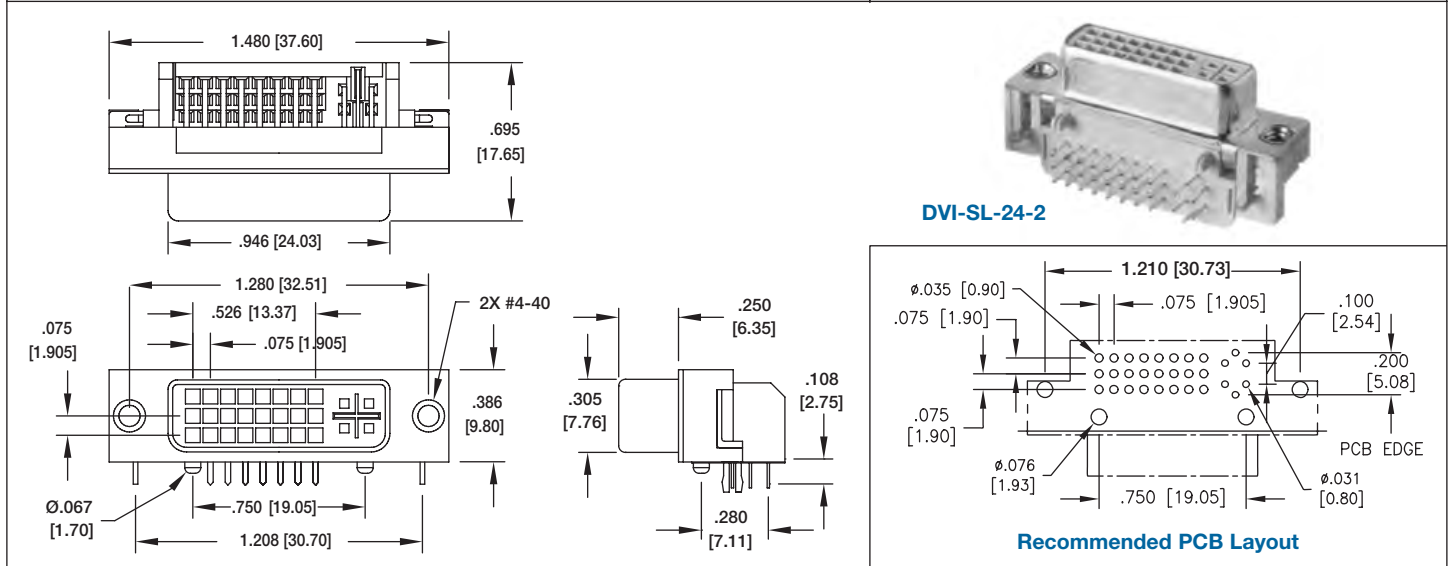
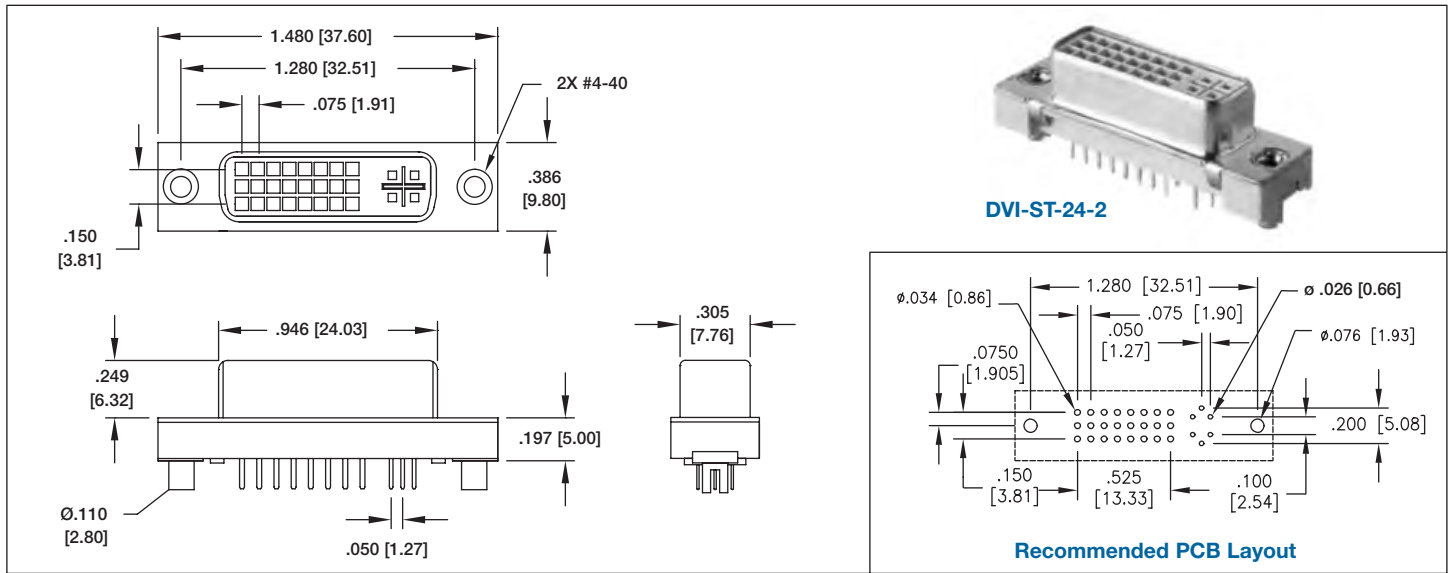


ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number
BK = Insulator color black
JS = Jackscrews Installed
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C



MR SERIES

Adam Tech MR Series Miniature Ribbon connectors come in a variety of terminations including Solder Terminals, Straight PCB Tails, Right Angle PCB mount, Flat Cable IDC and Straddle Mount Card Edge. These connectors with their high pressure, flat wiping contacts are a very popular widely used interface especially in telecommunication applications. Offered in 14, 24, 36 and 50 positions they are a good choice for high reliability positive latching connector applications. They combine an extremely reliable contact design with the popular, polarized D face. Adam Tech connectors are manufactured with precision stamped contacts and offer a wide selection of mating and mounting options.

FEATURES:

Available in many termination styles
 High pressure blade contacts
 Industry standard compatibility
 Durable metal shell design
 Variety of Mating and mounting options

MATING CONNECTORS:

Adam Tech Miniature Ribbon connectors and all industry standard miniature ribbon connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, Glass filled, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
 Insulator Color: Blue (Black optional)
 Contacts: Phosphor Bronze
 Shell: Steel, nickel plated

Contact Plating:

Gold over Nickel underplate on mating area, Tin over Copper underplate on tails

Electrical:

Operating Voltage: 250V AC
 Current Rating: 1 Amp max.
 Contact Resistance: 35 mΩ max.
 Insulation Resistance: 1000 MΩ min.
 Dielectric Withstanding Voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 12 oz max.
 Withdrawal force: 4.8 oz min.

Temperature Rating:

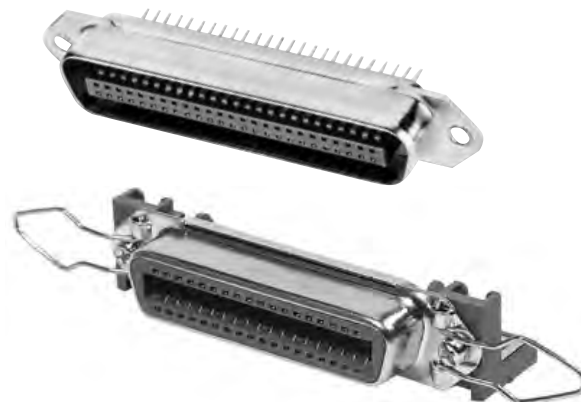
Operating Temperature: -55°C to +105°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION



SHELL SIZE & POSITIONS

MR14 = 14 Contacts
 MR24 = 24 Contacts
 MR36 = 36 Contacts
 MR50 = 50 Contacts

CONTACT TYPE

P = Plug
 S = Socket

MOUNTING

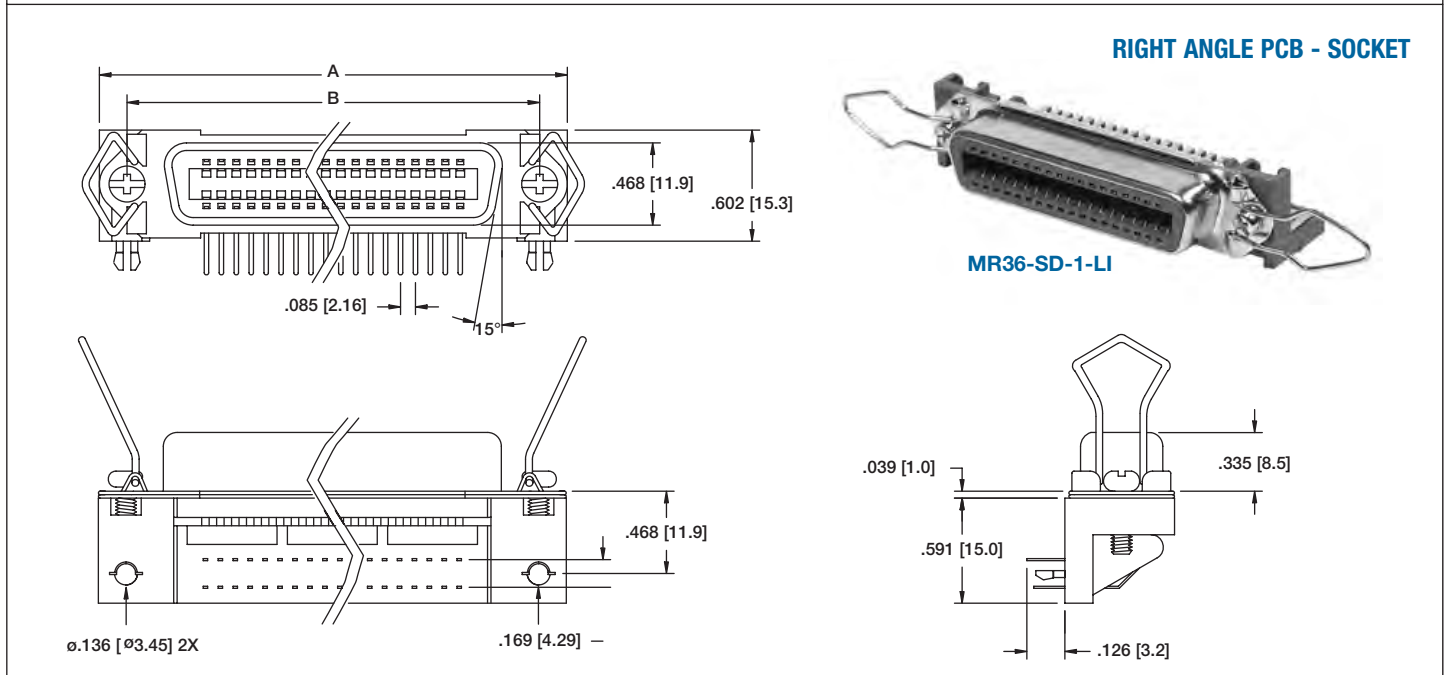
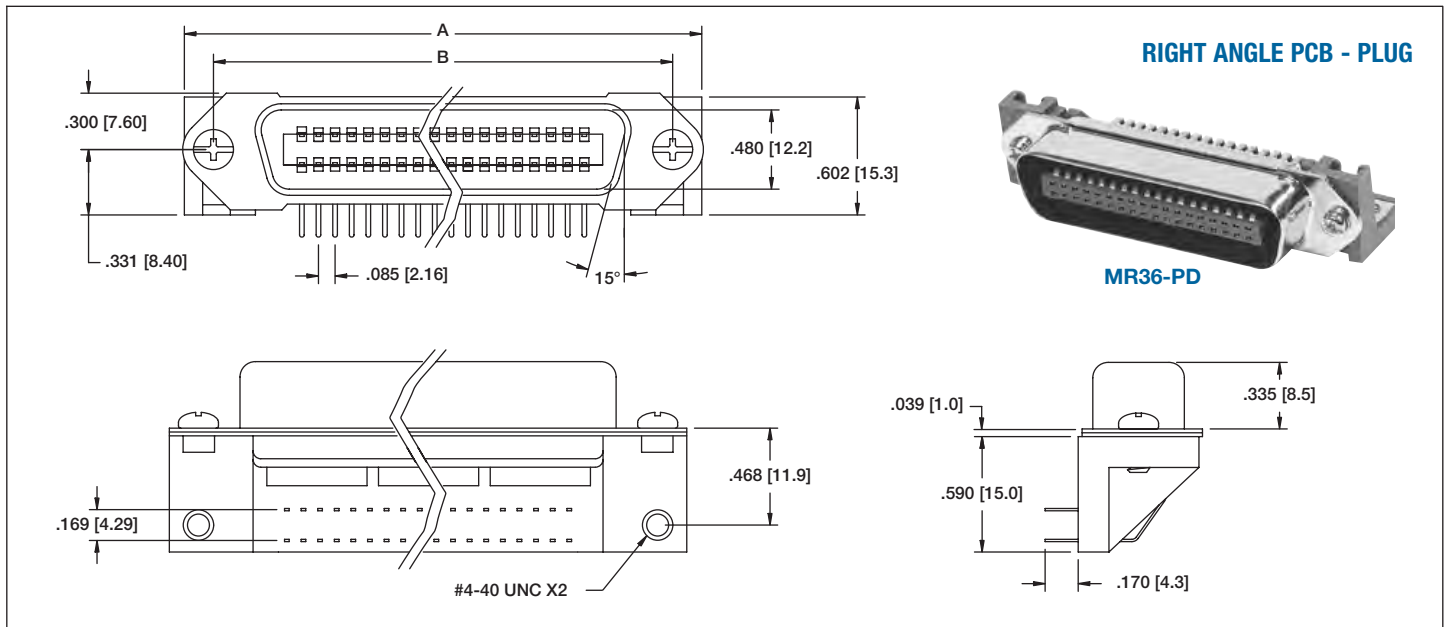
1 = Spring latches with .120" diameter mounting holes (socket only)
 14 = Spring latches with #4-40 clinch nuts in mounting holes (socket only)
 2 = Notch Ears (plug only)
 3 = .120" diameter mounting holes only
 34 = #4-40 threaded clinch nuts in mounting holes w/o spring latches

TERMINATION TYPE

A = Solder Terminals
 C = Straight PCB Tail
 D = Right Angle PCB Mount
 E = IDC, All plastic shell
 F = IDC, Metal Shell
 G = Straddle Mount Tails

OPTIONS:

Add designator(s) to end of part number
 30 = 30 μin gold plating in contact area
 BK = Black color insulator
 F = Forked boardlocks
 HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C
 LI = Spring Latches Installed

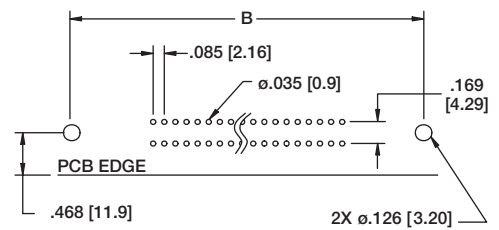


Ordering Information pg. 101

Unit: Inch [mm]

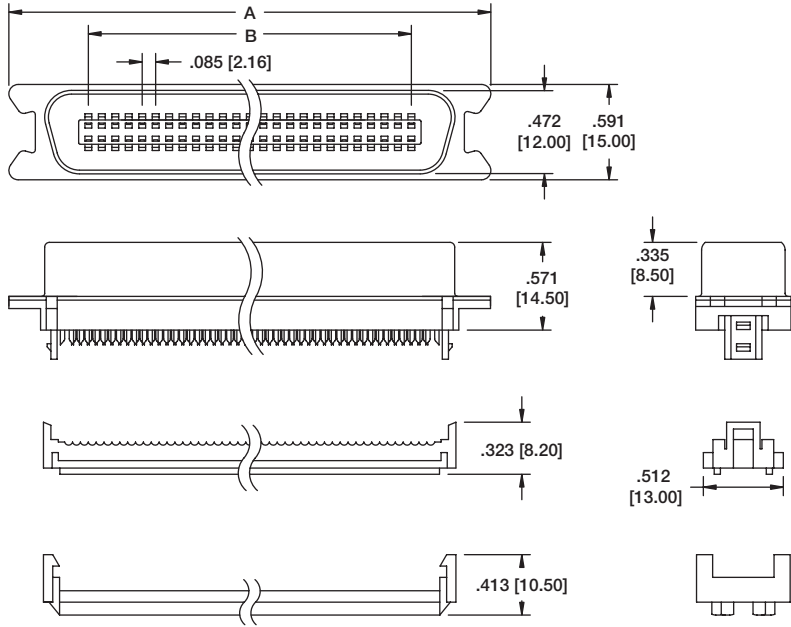
PART NO.	Dimensions	
	A	B
MR14-SD MR14-PD	1.750 [44.45]	1.417 [35.99]
MR24-SD MR24-PD	2.175 [55.25]	1.842 [46.79]
MR36-SD MR36-PD	2.685 [68.20]	2.352 [59.74]
MR50-SD MR50-PD	3.280 [83.31]	2.947 [74.85]

Recommended PCB Layout



Ordering Information pg. 101

IDC FLAT CABLE - PLUG

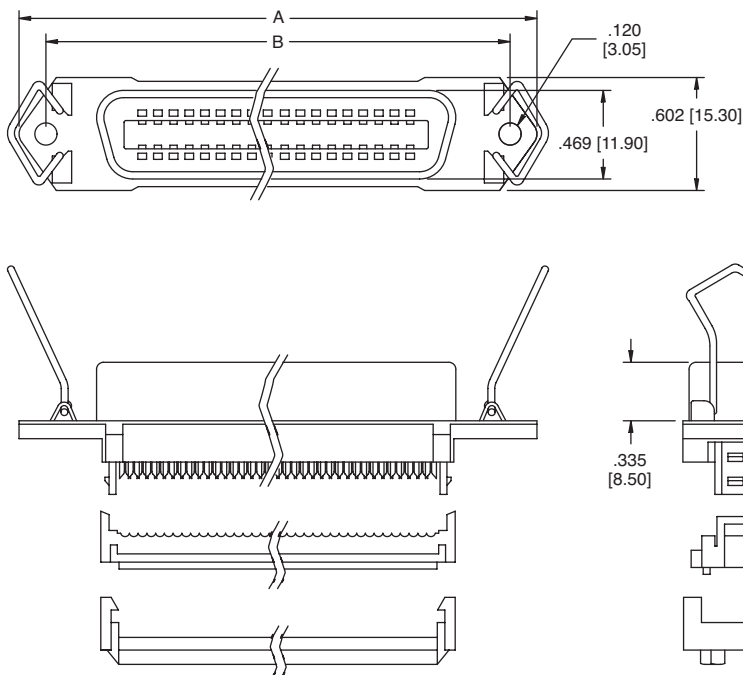


MR36-PF-2

Unit: Inch [mm]

PART NO.	Dimensions	
	A	B
MR14-SF MR14-PF	1.750 [44.45]	1.417 [35.99]
	2.175 [55.25]	1.842 [46.79]
MR36-SF MR36-PF	2.685 [68.20]	2.352 [59.74]
	3.280 [83.31]	2.947 [74.85]

IDC FLAT CABLE - SOCKET



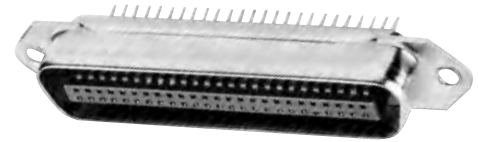
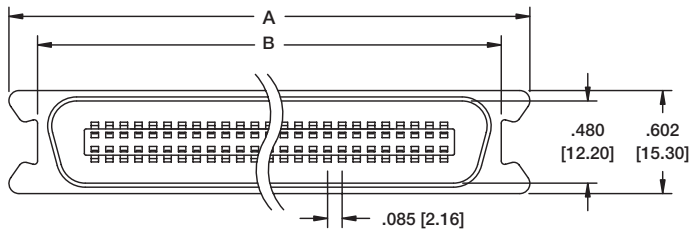
MR36-SF-1-LI



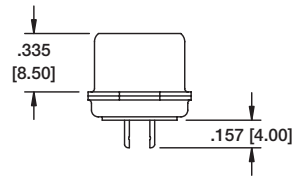
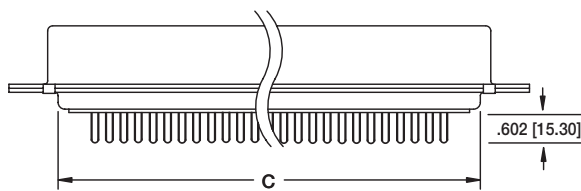
MR36-SF-3

Ordering Information pg. 101

STRAIGHT PCB TAIL PLUG

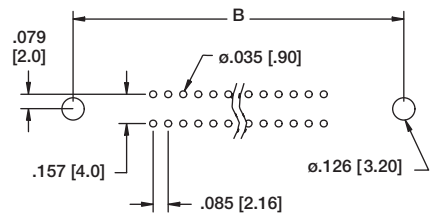
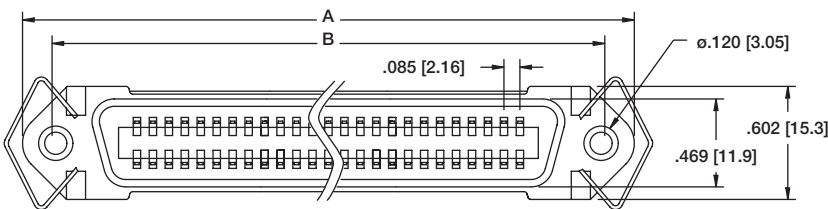


MR50-PC-3

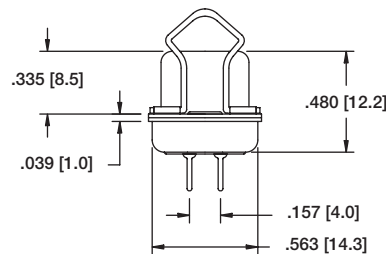
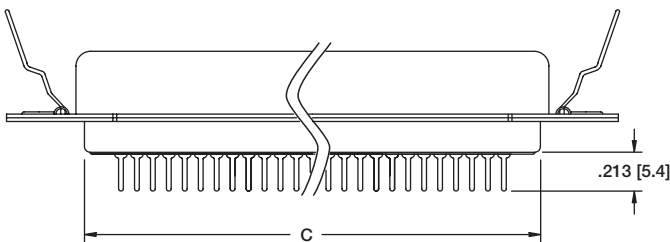


MR36-PC-2

STRAIGHT PCB TAIL SOCKET

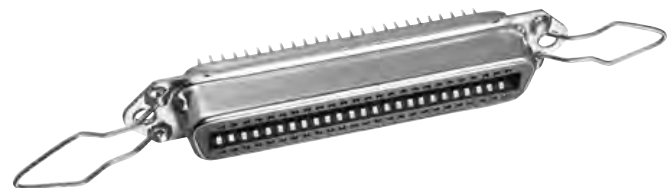


Recommended PCB Layout



Unit: Inch [mm]

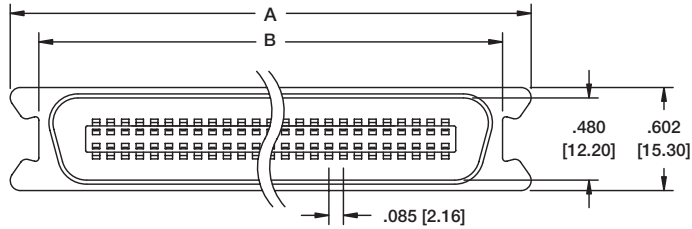
PART NO.	Dimensions	
	A	B
MR14-SC MR14-PC	1.750 [44.45]	1.417 [35.99]
MR24-SC MR24-PC	2.175 [55.25]	1.842 [46.79]
MR36-SC MR36-PC	2.685 [68.20]	2.352 [59.74]
MR50-SC MR50-PC	3.280 [83.31]	2.947 [74.85]



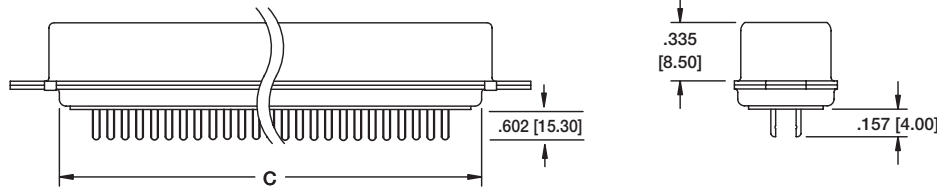
MR50-SC-1-LI

Ordering Information pg. 101

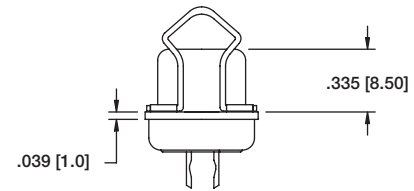
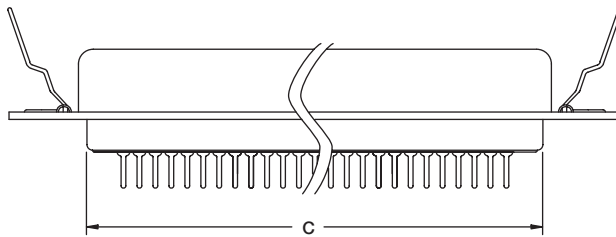
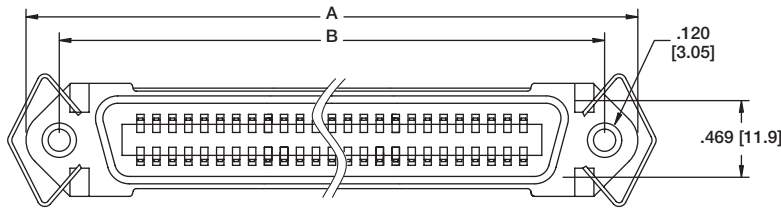
SOLDER TERMINALS - PLUG



MR36-PA-2



SOLDER TERMINALS - SOCKET



Unit: Inch [mm]

PART NO.	Dimensions	
	A	B
MR14-SA MR14-PA	1.750 [44.45]	1.417 [35.99]
MR24-SA MR24-PA	2.175 [55.25]	1.842 [46.79]
MR36-SA MR36-PA	2.685 [68.20]	2.352 [59.74]
MR50-SA MR50-PA	3.280 [83.31]	2.947 [74.85]



MR36-SA-1-LI

INTRODUCTION:

Adam Tech USB, Mini USB & Micro USB (Universal Serial Bus) and IEEE 1394 (Firewire) Series connectors are a complete line of shielded, hot pluggable, high speed I/O interface connectors available in a variety of body styles, sizes, positions and mounting orientations. Each is shielded for superior EMI/RFI protection and features spring contacts for exceptional connectivity properties. Specially designed shells with flares eliminate misconnection and kinked boardlocks add a strong, stable PCB attachment. An ideal solution for a low cost, high speed connection to peripheral devices.

FEATURES:

- USB-IF Compatible
- High Speed I/O applications
- Variety of Circuit sizes
- Variety of Body Styles
- Standard and Mini versions
- Shielded for EMI/RFI protection

MATING CONNECTORS:

Adam Tech USB, Mini USB & Micro USB and IEEE 1394 series connectors and all industry standard USB and IEEE 1394 connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, Glass filled, rated UL94V-0
 Optional Hi-Temp insulator: Nylon PA9T, rated UL94V-0
 Insulator Color: Black (White optional)
 Contacts: Phosphor Bronze or Brass
 Shell: Steel, nickel plated

Contact Plating:

Gold over Nickel on mating area,
 Tin over Copper underplate on tails

Electrical:

Operating Voltage: 30V AC
 Current Rating: 1 Amp max.
 Contact Resistance: 30 mΩ max.
 Insulation Resistance: 1000 MΩ min.
 Dielectric Withstanding Voltage: 100V AC for 1 minute

Mechanical:

Insertion force: 3 oz max.
 Withdrawal force: 0.5 oz min.

Temperature Ratings:

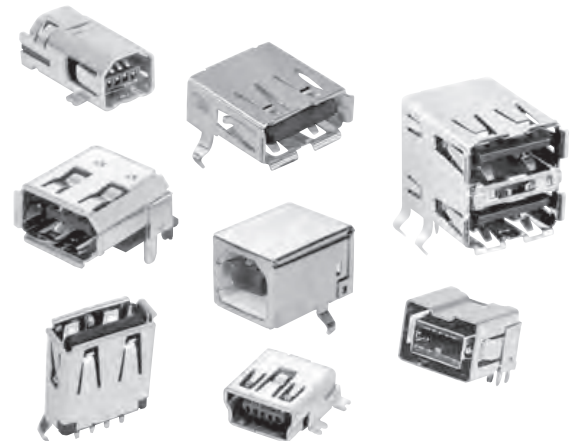
Operating Temperature: -55°C to +85°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays or tubes

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

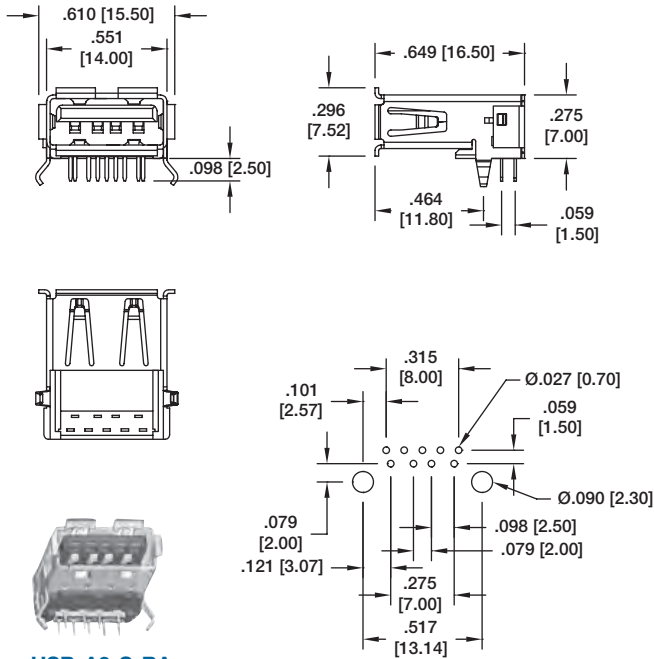


ORDERING INFORMATION

USB	A	S	RA
<p>SERIES INDICATOR USB = Universal Serial Bus MUSB = Mini USB MCR = Micro USB FWC = IEEE 1394, Firewire MFW = Mini IEEE 1394, Firewire</p>	<p>TYPE A = USB Type "A" A3 = USB 3.0 Type "A" B = USB Type "B" B3 = USB 3.0 Type "B" AB = USB Type "AB" (Mini) mid-mount B4 = USB Type "B" (Mini) 4 pin B5 = USB Type "B" (Mini) 5 pin C = Firewire (IEEE 1394) D = Firewire (IEEE 1394B) Bilingual Type P = Firewire Plug (IEEE 1394) AP = USB Type A Plug BP = USB Type B Plug AB1 = USB Type AB (Mini Top Mount)</p>	<p>MOUNTING ANGLE RA = Right Angle RU = Right Angle Upright VT = Vertical Mount S = Wire Termination (Plug Only)</p> <p>PORTS S = Single port D = Dual port T = Triple port Q = Quad port</p>	
<p>OPTIONS: Add as Suffix to basic part no. SMT = Surface Mount Leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C TSMT = True Surface Mount Leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C 30 = 30 μin gold plating in contact area WT = White color insulator HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators) T/R = Tape & Reel packaging</p>			



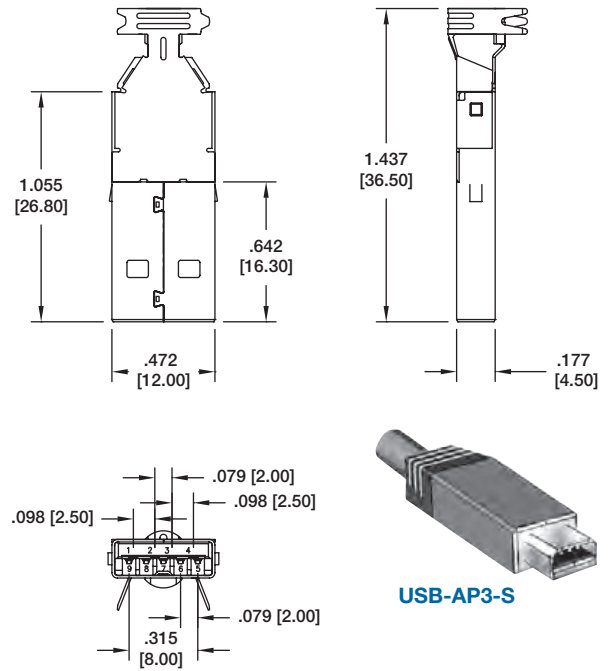
USB 3.0, TYPE A RIGHT ANGLE THRU-HOLE



USB-A3-S-RA

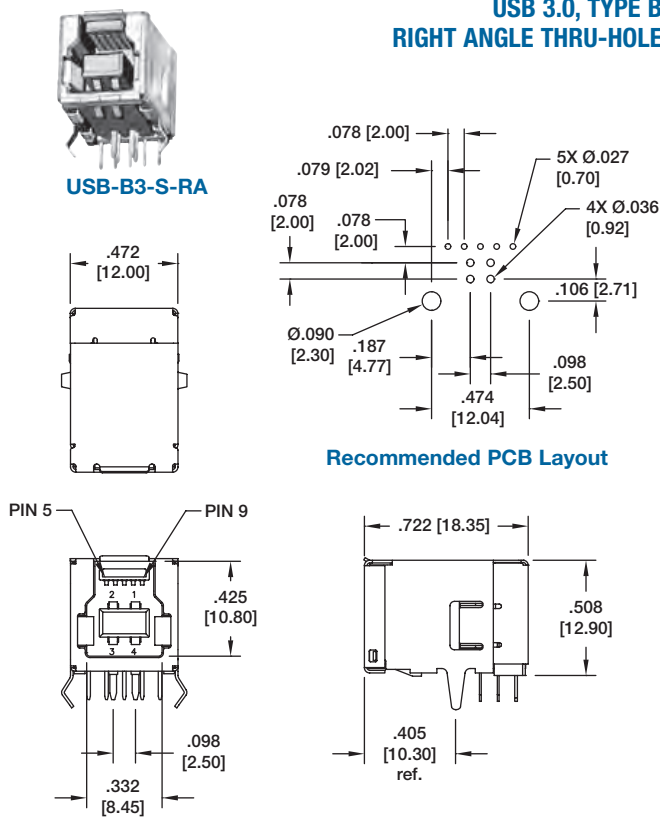
Recommended PCB Layout

USB 3.0, TYPE A PLUG



USB-AP3-S

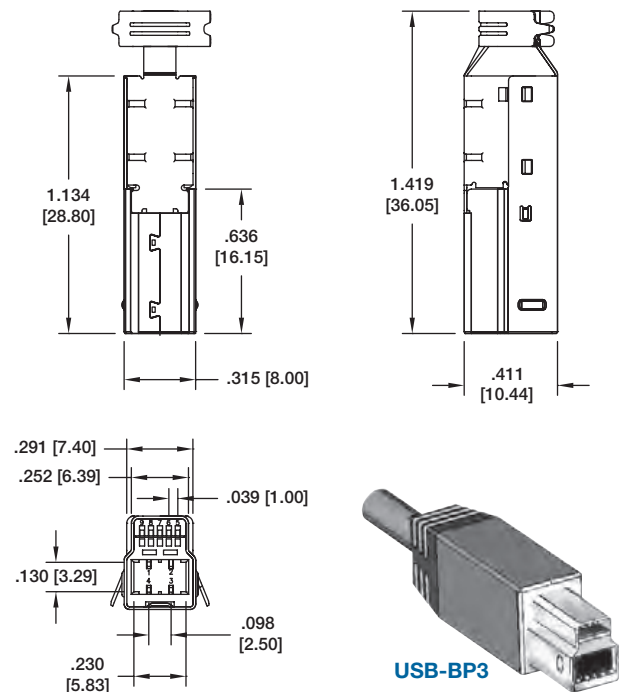
USB 3.0, TYPE B RIGHT ANGLE THRU-HOLE



USB-B3-S-RA

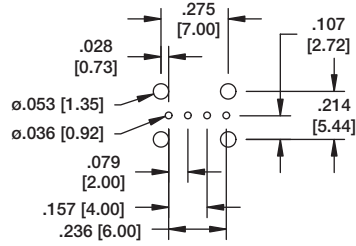
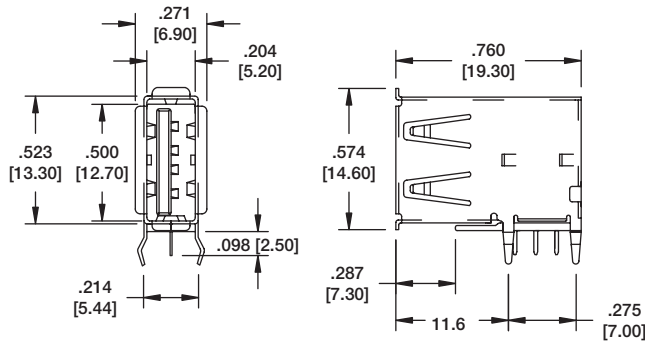
Recommended PCB Layout

USB 3.0, TYPE B PLUG



USB-BP3

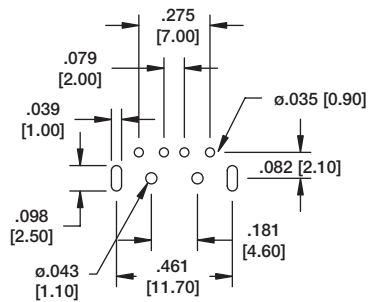
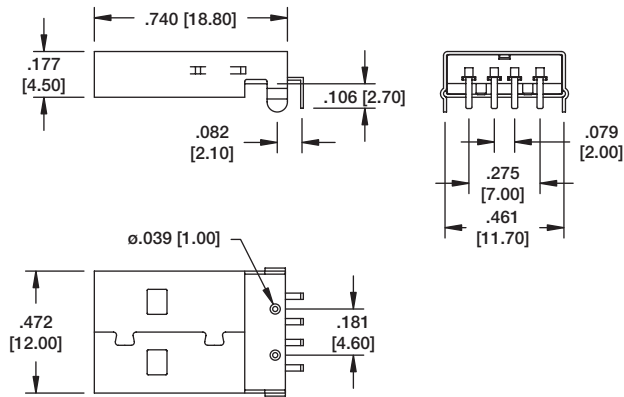
USB 2.0, TYPE A ANGLE UPRIGHT, THRU-HOLE



USB-A-S-RU

Recommended PCB Layout

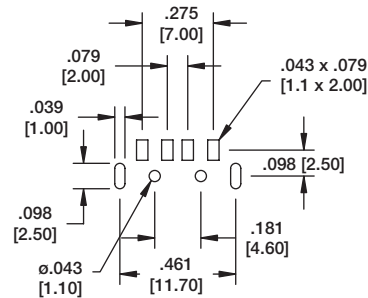
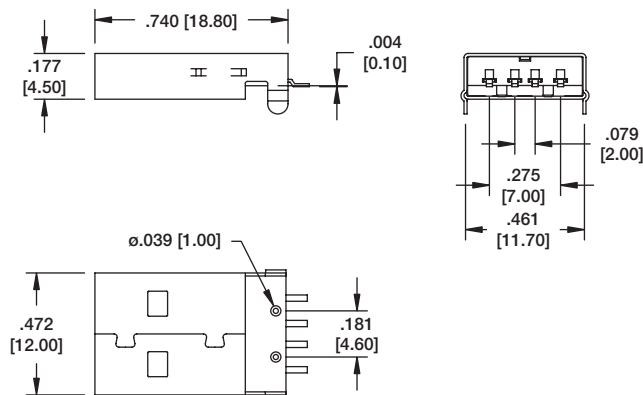
USB 2.0, TYPE A PLUG RIGHT ANGLE, THRU-HOLE



USB-AP-S-RA

Recommended PCB Layout

USB 2.0, TYPE A PLUG RIGHT ANGLE, SMT



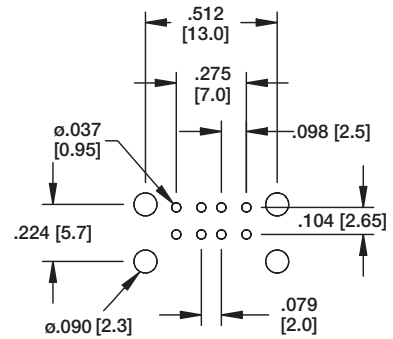
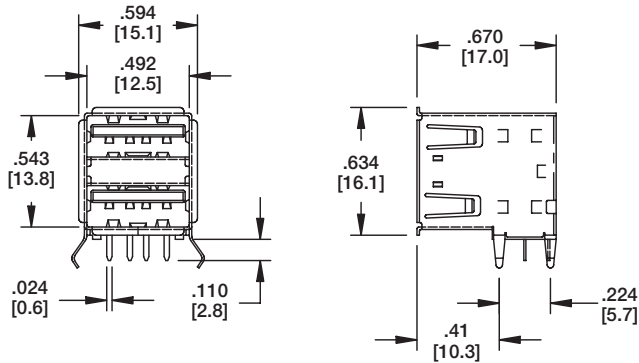
USB-AP-S-RA-SMT

Recommended PCB Layout

USB 2.0, TYPE A, 2 PORT STACKED, RIGHT ANGLE, THRU-HOLE



USB-A-D-RA

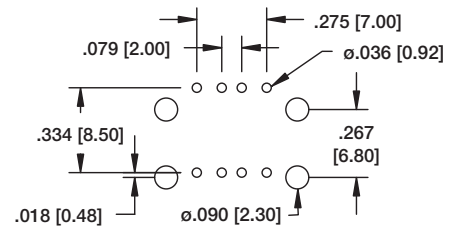
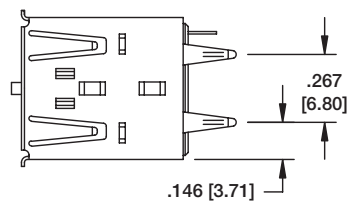
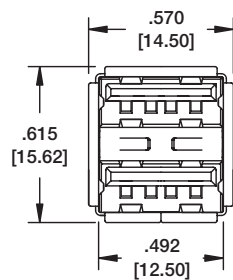
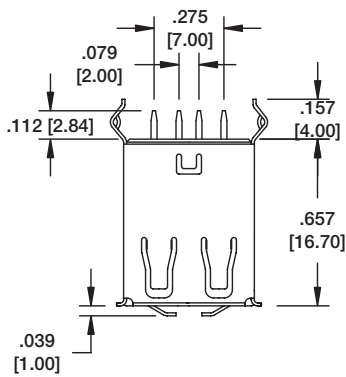


**Recommended PCB Layout
(Bottom View)**

USB 2.0, TYPE A, 2 PORT STACKED, VERTICAL, THRU-HOLE

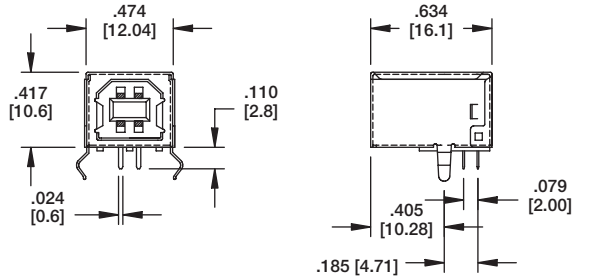


USB-A-D-VT

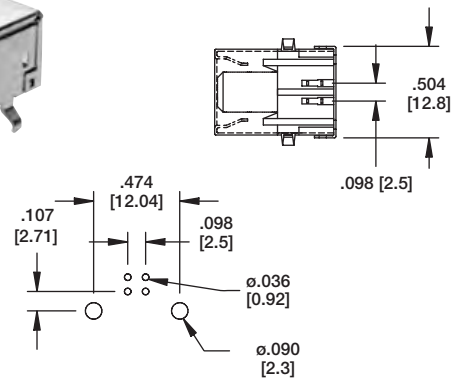


Recommended PCB Layout

USB 2.0, TYPE B RIGHT ANGLE, THRU-HOLE

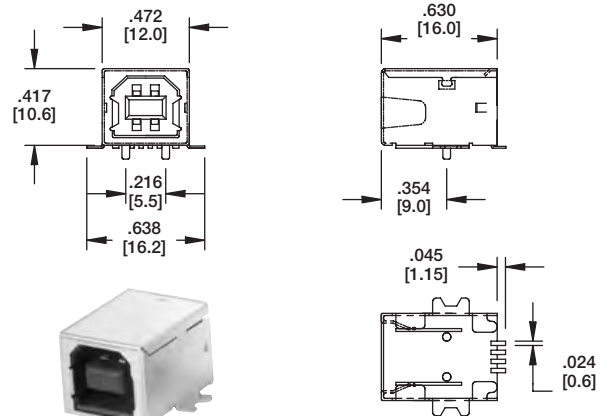


USB-B-S-RA

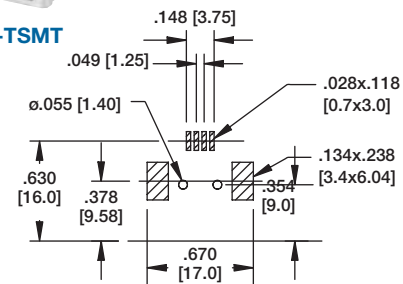


Recommended PCB Layout

USB 2.0, TYPE B RIGHT ANGLE, TRUE SMT

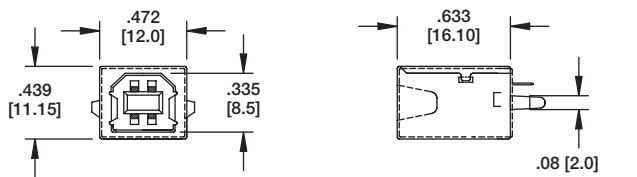


USB-B-S-RA-TSMT

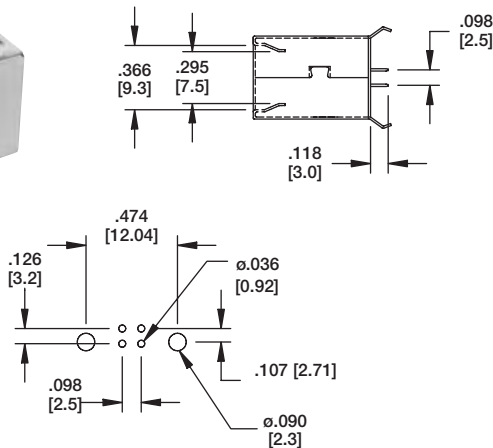


Recommended PCB Layout

USB 2.0, TYPE B VERTICAL, THRU-HOLE



USB-B-S-VT

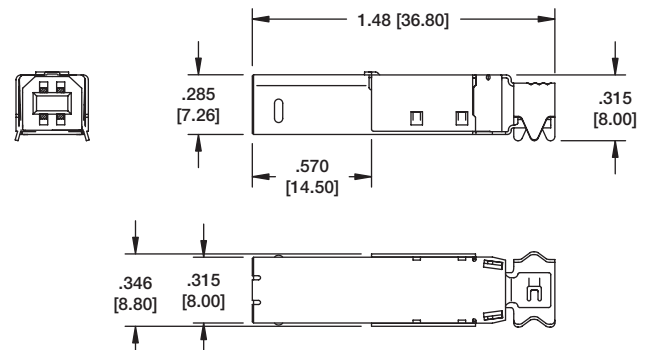


**Recommended PCB Layout
(Component Side)**

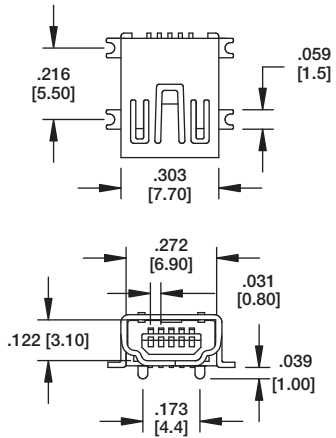
USB 2.0, TYPE B PLUG



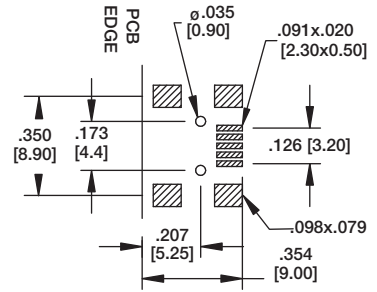
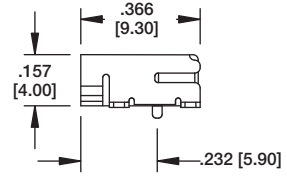
USB-BP-S



MINI USB 2.0, TYPE A RIGHT ANGLE, TRUE SMT

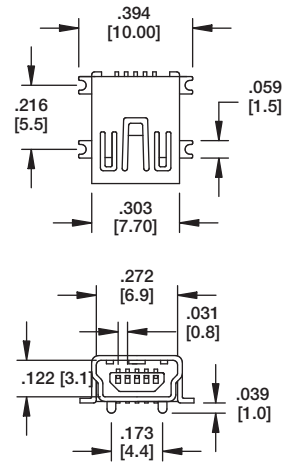


MUSB-A-S-RA-TSMT

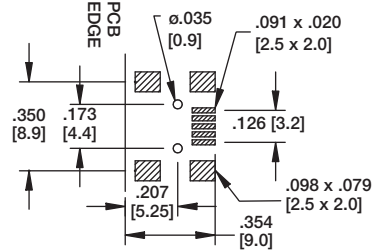
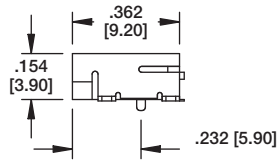


Recommended PCB Layout

MINI USB 2.0, TYPE B (5 PIN) RIGHT ANGLE, TRUE SMT

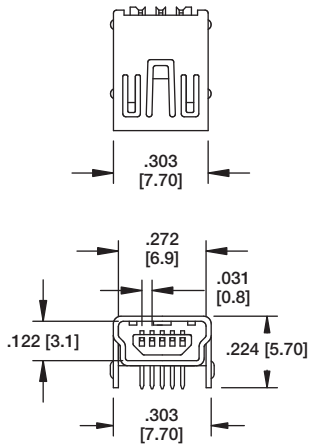


MUSB-B5-S-RA-TSMT

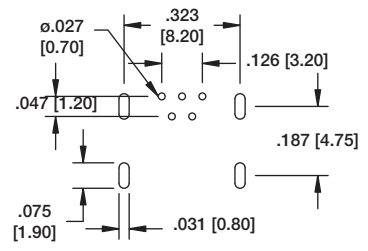
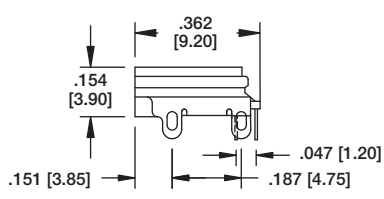


Recommended PCB Layout

MINI USB 2.0, TYPE B (5 PIN) RIGHT ANGLE, THRU-HOLE

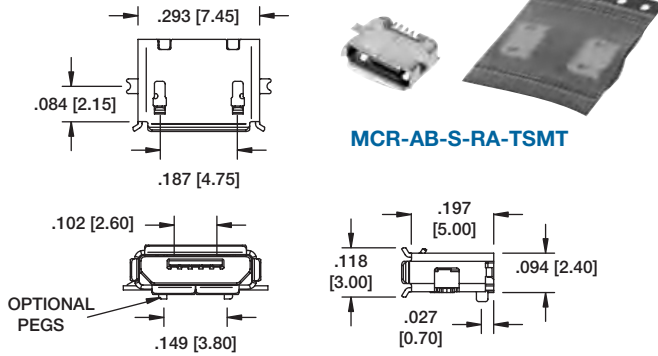


MUSB-B5-S-RA

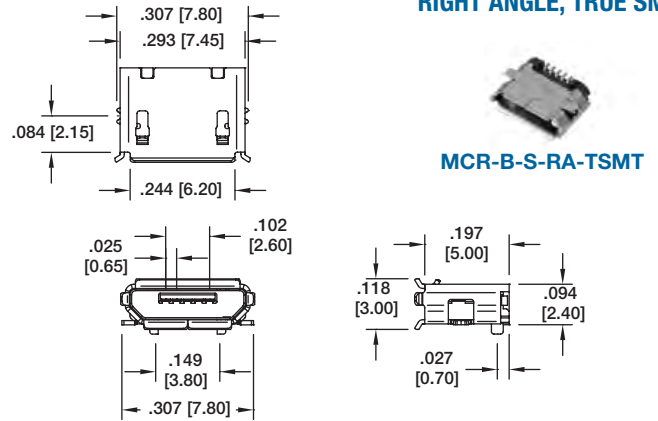


Recommended PCB Layout

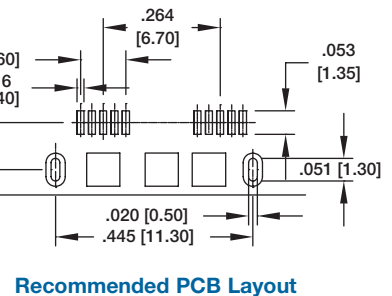
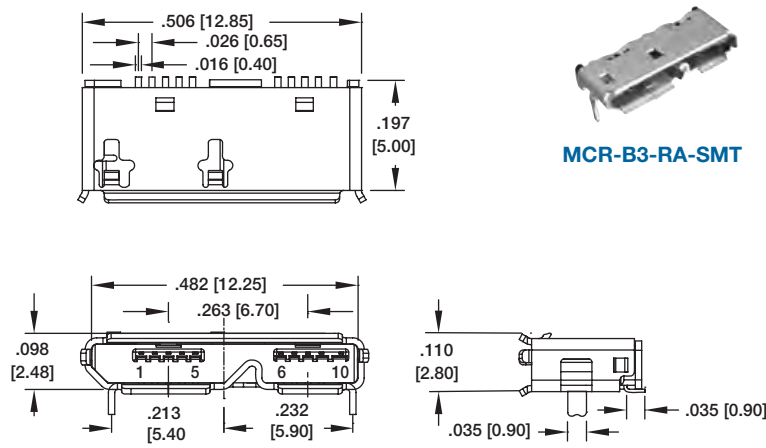
MICRO USB 2.0, TYPE AB RIGHT ANGLE, TRUE SMT



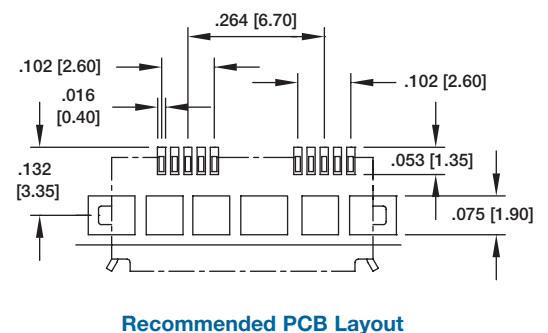
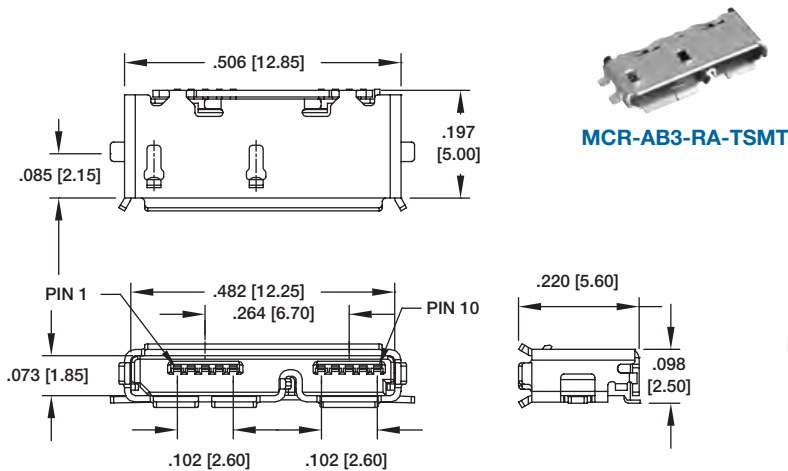
MICRO USB 2.0, TYPE B RIGHT ANGLE, TRUE SMT



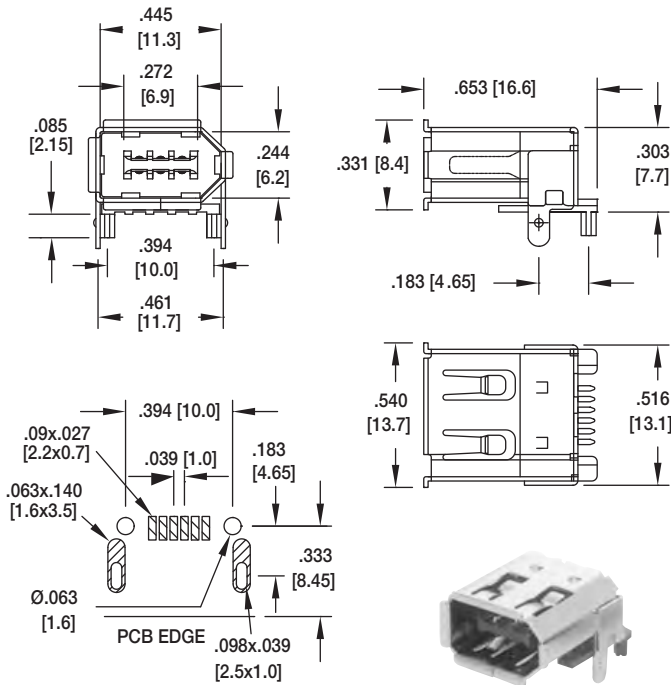
MICRO USB 3.0, RIGHT ANGLE TRUE SMT



MICRO USB 3.0, RIGHT ANGLE SMT



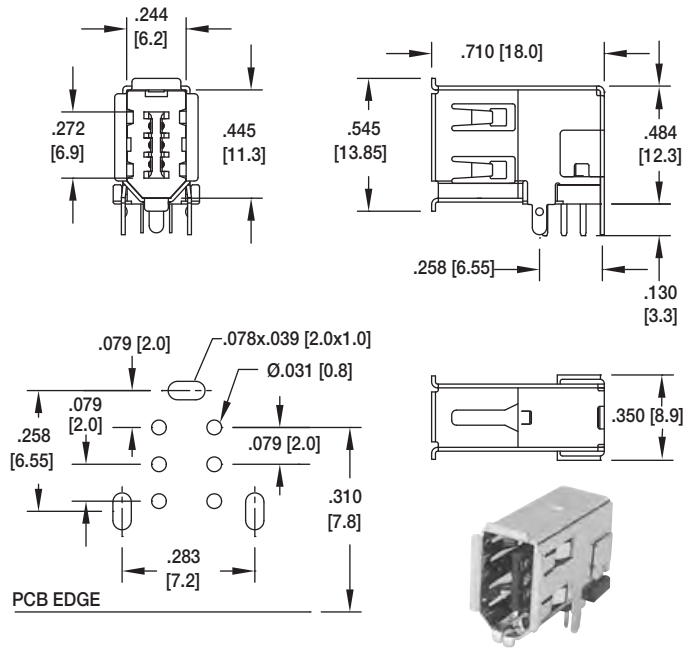
IEEE 1394, RIGHT ANGLE, SMT



Recommended PCB Layout

FWC-C-S-RA-SMT

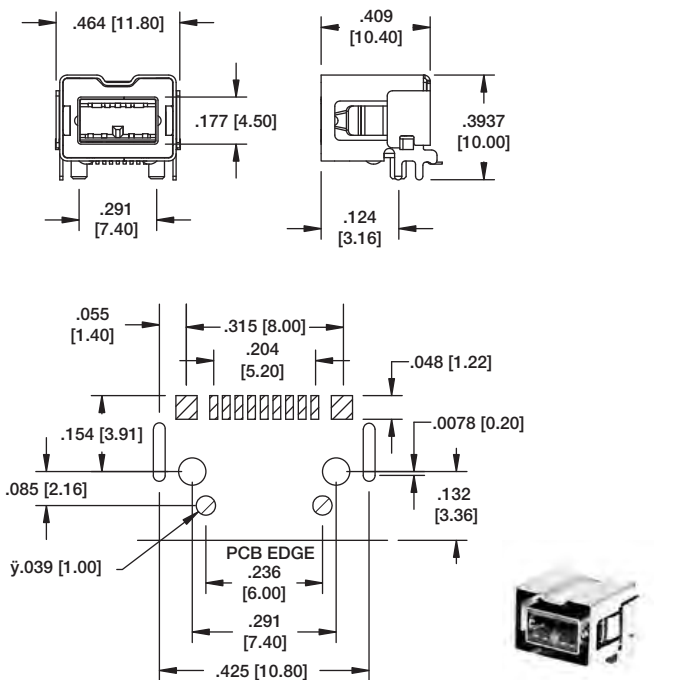
IEEE 1394, RIGHT ANGLE UPRIGHT, THRU-HOLE



Recommended PCB Layout

FWC-C-S-RU

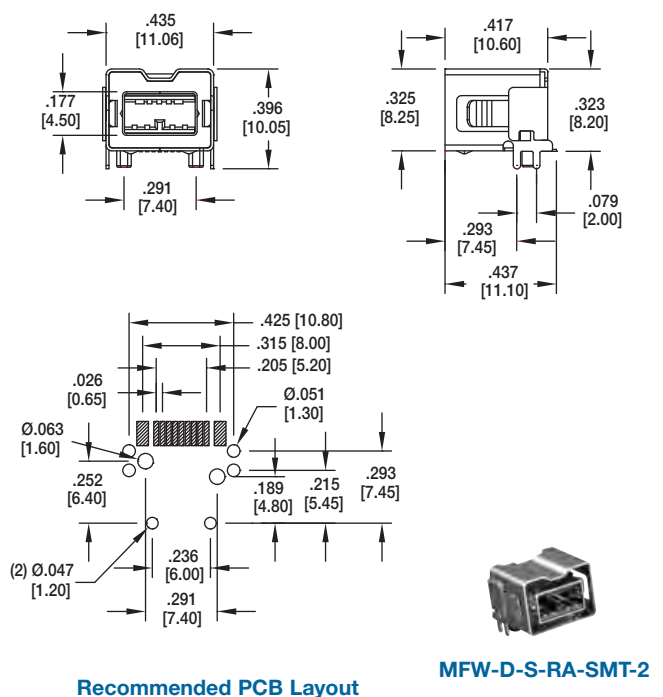
MINI IEEE 1394, RIGHT ANGLE, SMT



Recommended PCB Layout (Bilingual)

MFW-D-S-RA-SMT-2A

MINI IEEE 1394, RIGHT ANGLE, SMT



Recommended PCB Layout

MFW-D-S-RA-SMT-2

INTRODUCTION:

Adam Tech DisplayPort series is a new high band width digital interface connection designed to provide true digital imaging while providing a multitude of colors and crystal clear sound through one small plug which can also supply power. There are 4 main links, one auxiliary channel and one hot-plug signal line. Adam Tech DisplayPort connectors are designed to work on a broad array of devices, including computers, televisions, camcorders, cameras and DVD players. Our DisplayPort connectors are fully compatible with industry standards and are backwards compatible to VGA, DVI & HDMI.

FEATURES:

Ultra small size package
Hot Pluggable
Supports color depth of 6, 8, 10, 12 and 16 bits per color components
Supports a maximum of 8.64 Gbit/s data rate over a 2 meter cable
Can be used in applications up to 15 meters (49.21 feet)

MATING CONNECTORS:

Adam Tech Display Port custom cables and all industry standard Display Port Cables

SPECIFICATIONS:

Material:

Insulator: LCP, Glass filled, rated UL94V-0, color Black

Contacts: Copper Alloy

Shell: Copper Alloy, nickel plated

Contact Plating:

Gold over nickel underplate on mating area, Tin over Copper underplate on tails

Electrical:

Operating Voltage: 40V AC

Current Rating: 0.5 Amps max.

Contact Resistance: 30 mΩ max.

Insulation Resistance: 100 MΩ min.

Dielectric Withstanding Voltage: 500V AC for 1 minute

Mechanical:

Mating Cycles: 10,000 Cycles Min

Temperature Ratings:

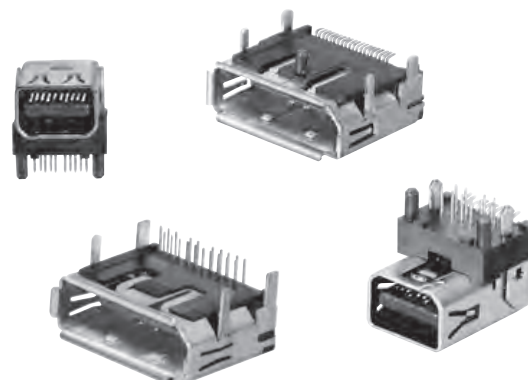
Operating Temperature: -20°C to +85°C

PACKAGING:

Anti-ESD plastic trays or tubes

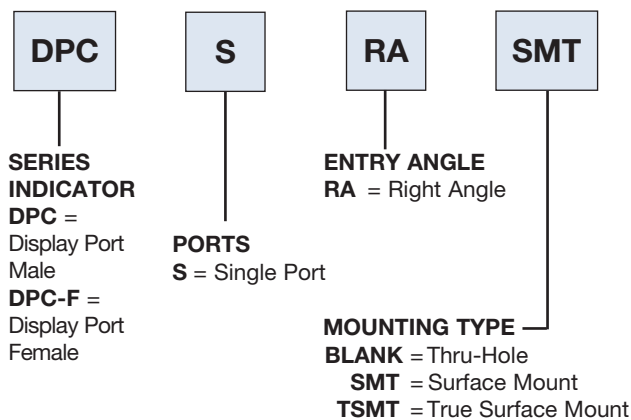
APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

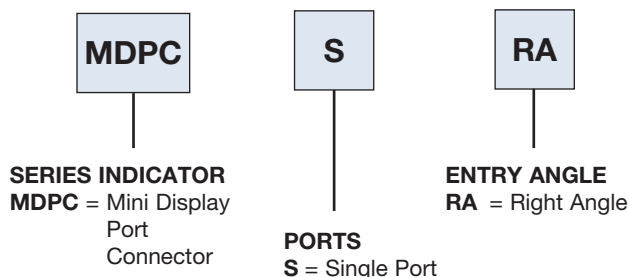


ORDERING INFORMATION

DISPLAY PORT CONNECTOR



MINI DISPLAY PORT CONNECTOR

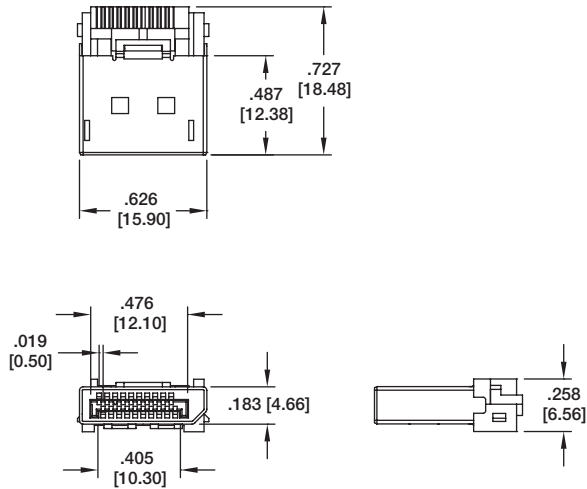


OPTIONS:

Add designator(s) to end of part number
MF = Mounting Flange (DPC series only)

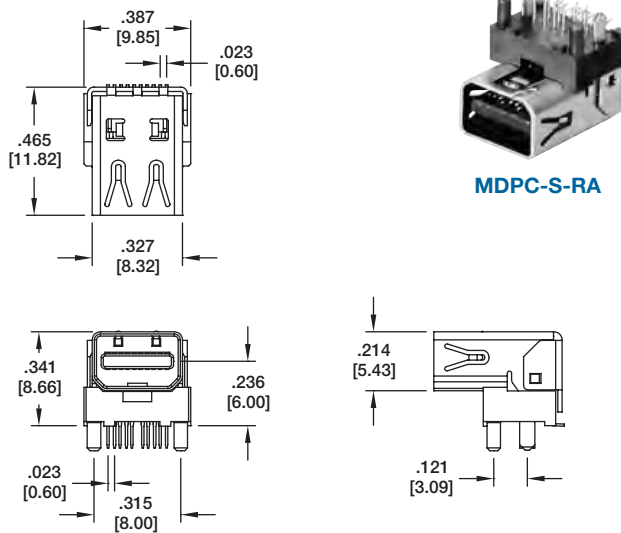


DISPLAY PORT MALE PLUG MOLDING TYPE

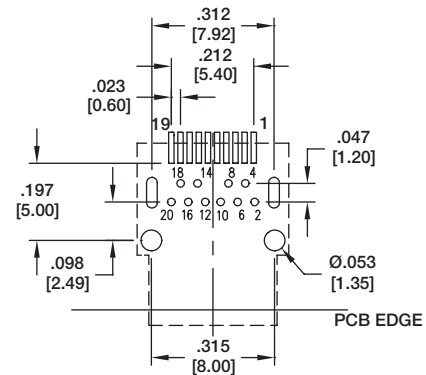


DPC-PLUG

MINI DISPLAY PORT, RIGHT ANGLE

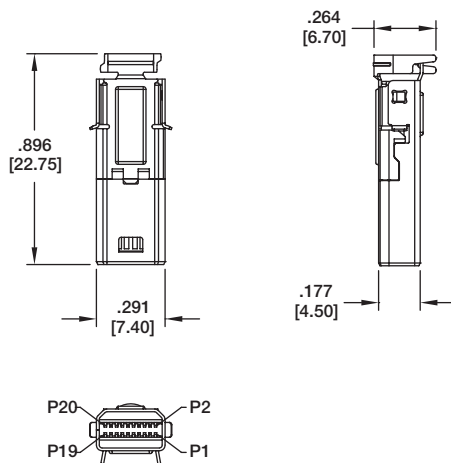


MDPC-S-RA

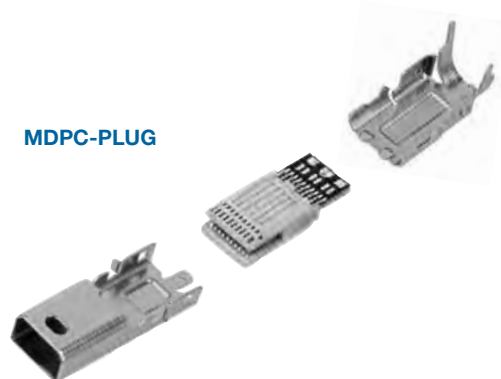


Recommended PCB Layout

MINI DISPLAY PORT, PLUG



MDPC-PLUG



INTRODUCTION

Adam Tech's High Definition Multimedia Interface (HDMI) connectors and cable assemblies are a series of products that provide an uncompressed digital link between video and audio in a single digital interface connection. Typically they are used with digital versatile disc (DVD) players, digital television (DVI) players, set-top boxes and other audiovisual devices to consolidate interfaces and eliminate multiple cable assemblies. Adam Tech's HDMI Series are small, easy to use interconnects that can carry up to 5 Gbps of combined video and audio in a single connector/cable.

FEATURES:

- Sturdy, industry compatible design
- Eliminates multiple connectors and cables
- Up to 5 Gbps in single interface
- Variety of mounting styles
- Fully shielded for ESD protection
- Compact 0.50mm (.019") pitch SMT design

MATING CONNECTORS:

All industry standard HDMI connectors.

SPECIFICATIONS:

Material:

- Insulator: Hi-Temperature thermoplastic, glass filled, rated UL94V-0
- Insulator Color: Black
- Shell: Phosphor Bronze, Nickel plated
- Contacts: Phosphor Bronze

Plating:

- Gold over nickel underplate on mating area, tin over copper underplate on tails

Electrical:

- Operating Voltage: 30V AC
- Current Rating: 0.5 Amps Max.
- Contact Resistance: 10 mΩ Max.
- Insulation Resistance: 100 MΩ Min.
- Dielectric Withstanding Voltage: 300V AC for 1 Minute

Mechanical:

- Insertion force: 10.0 lbs max.
- Withdrawal force: 2.2 lbs min.

Temperature Rating:

- Operation Temperature: -55°C ~ +85°C

PACKAGING:

- Anti ESD plastic trays or Tubes

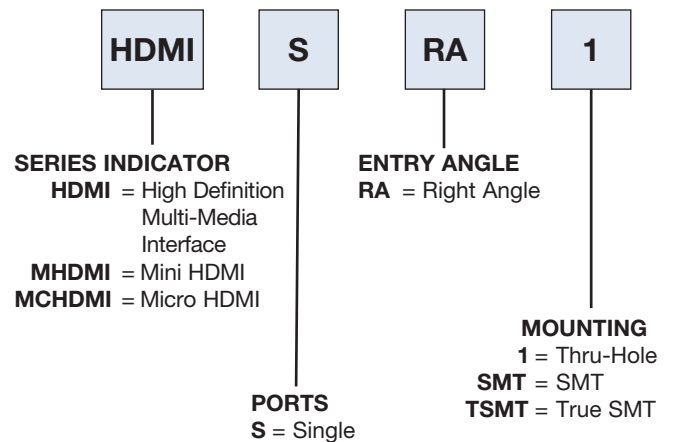
APPROVALS AND CERTIFICATIONS:

- UL Recognized File no. E224053



ORDERING INFORMATION

HDMI CONNECTOR

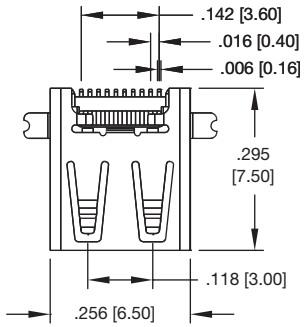


OPTIONS:

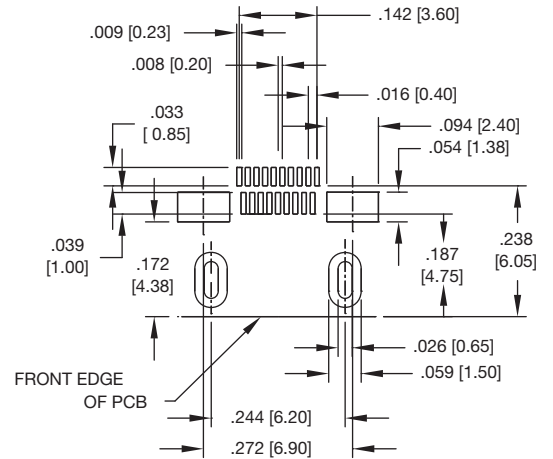
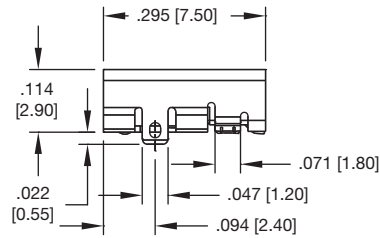
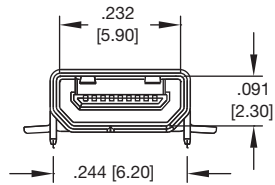
- Add designator(s) to end of part number
- 15** = 15 μin gold plating in contact area
- MF** = Mounting Flange
- R** = Reverse Layout



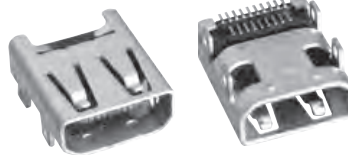
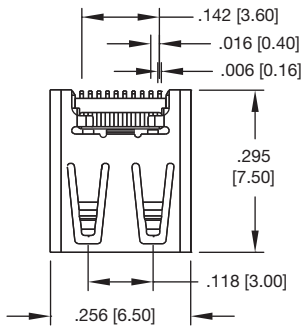
MICRO HDMI, RIGHT ANGLE, SMT



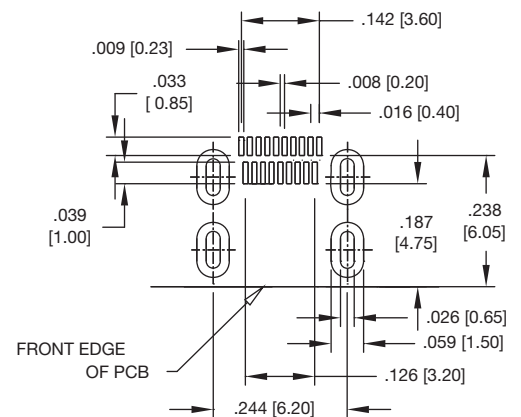
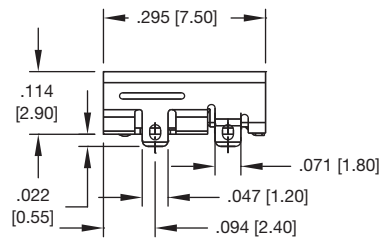
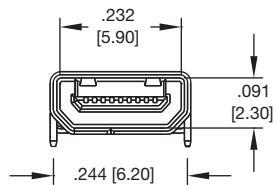
MCHDMI-S-RA-1-SMT



MICRO HDMI, RIGHT ANGLE, SMT



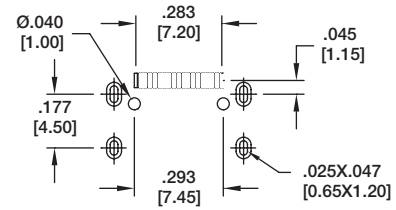
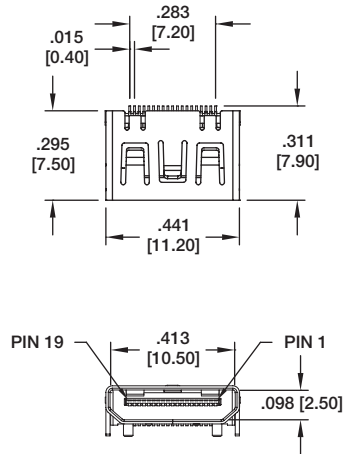
MCHDMI-S-RA-2-SMT



MINI HDMI, RIGHT ANGLE, SMT



MHDMI-S-RA-1-SMT

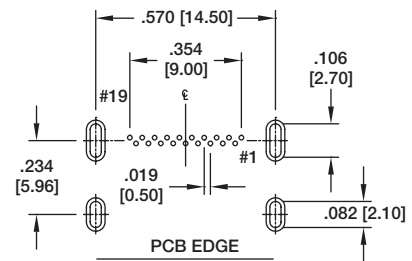
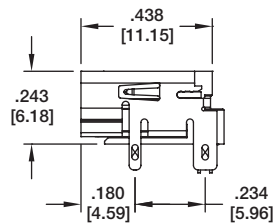
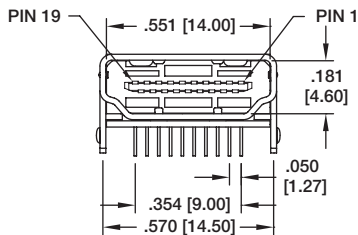
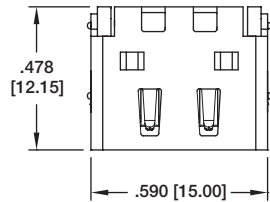


Recommended PCB Layout

HDMI RIGHT ANGLE THRU-HOLE

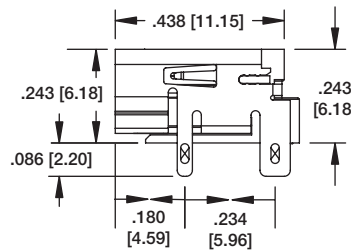
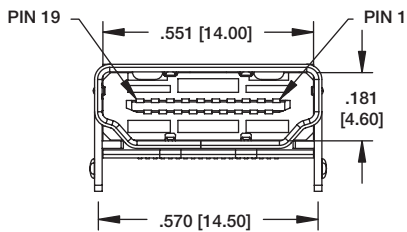
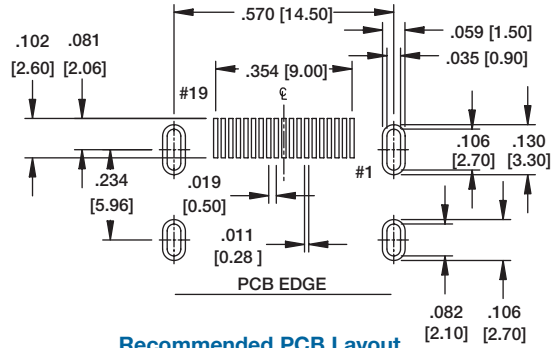
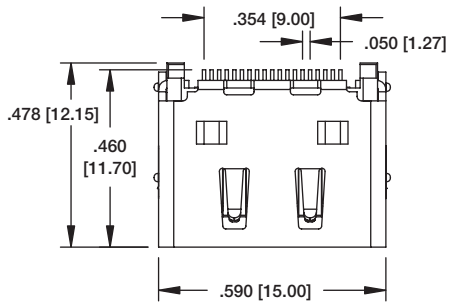


HDMI-S-RA-1



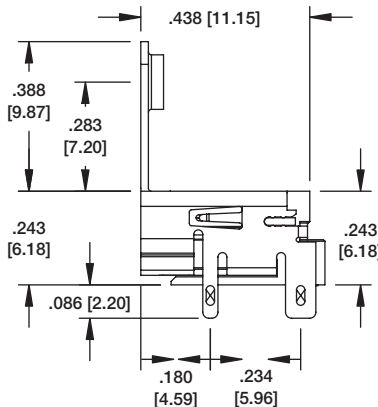
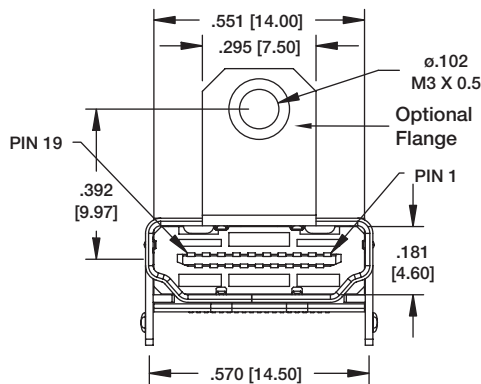
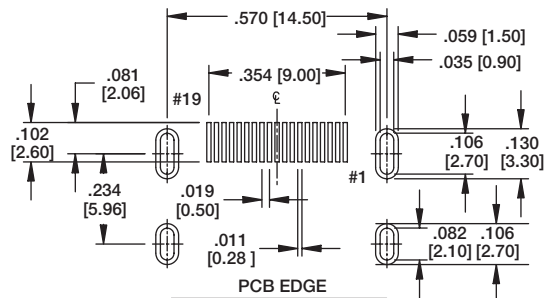
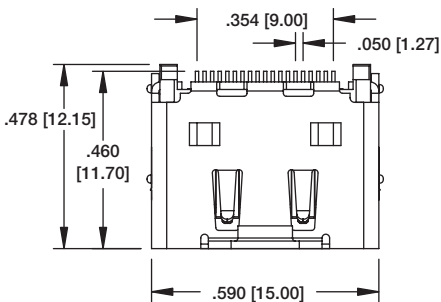
Recommended PCB Layout

RIGHT ANGLE SMT



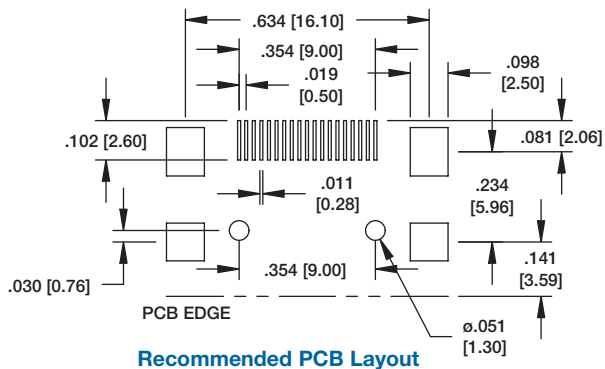
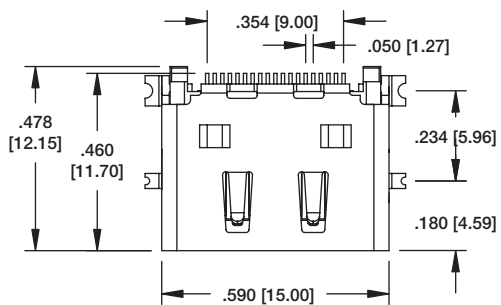
HDMI-S-RA-SMT

RIGHT ANGLE SMT WITH MOUNTING FLANGE

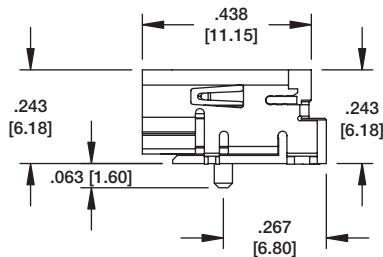
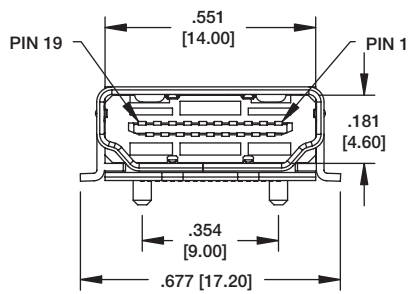


HDMI-S-RA-SMT-MF

RIGHT ANGLE TRUE SMT

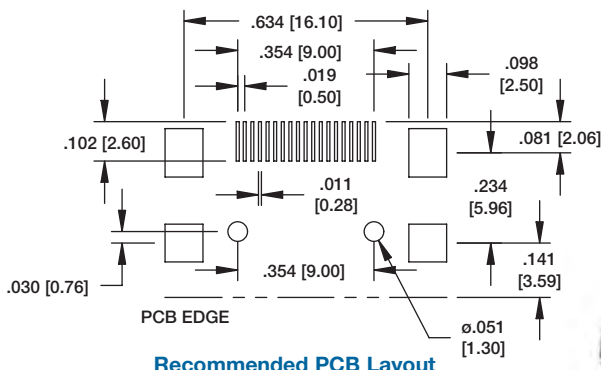
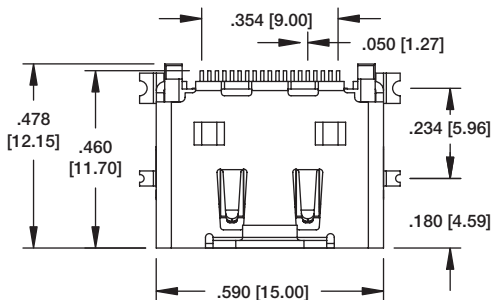


Recommended PCB Layout

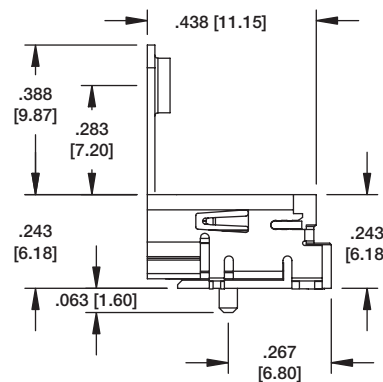
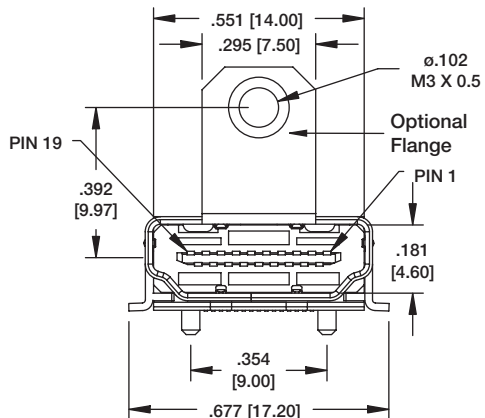


HDMI-S-RA-TSMT

RIGHT ANGLE TRUE SMT WITH MOUNTING FLANGE



Recommended PCB Layout



HDMI-S-RA-TSMT-MF

INTRODUCTION:

Adam Tech SATA & eSATA series Serial ATA connectors combine hot-plug capability with a combination of power and signal contacts in a blind-mate design. They are ideal for connecting disk drives to backplanes in servers or network equipment. Adam Tech SATA connectors are designed with differential-pair signaling technology and are precision manufactured to consistently perform at speeds up to 3.0 Gbits/s.

FEATURES:

Meets SCA Interconnection Standards
40P Fiber Channel and 80P SCSI compatible
Interchangeable Industry Standard Design

MATING CONNECTORS:

Adam Tech SATA & eSATA series plugs and all industry standard SATA plugs.

SPECIFICATIONS:

Material:

Insulator: Hi-Temp thermoplastic, glass filled, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

Plating:

Gold over nickel underplate on mating area, tin over copper underplate on tails

Electrical:

Operating Voltage: 30V AC
Current Rating: 1.5 Amps Max.
Contact Resistance: 30 mΩ Max. initial
Insulation Resistance: 1000 MΩ Min.
Dielectric Withstanding Voltage: 500V AC for 1 Minute

Mechanical:

Insertion force: 10.20 lbs max.
Withdrawal force: 2.25 lbs min.

Temperature Rating:

Operating Temperature: -55°C to +85°C
Soldering process temperature: 260°C

PACKAGING:

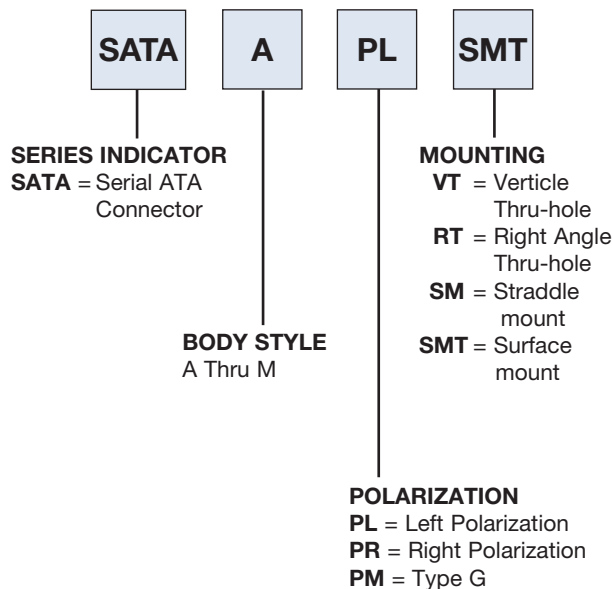
Anti-ESD plastic trays or tubes

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION

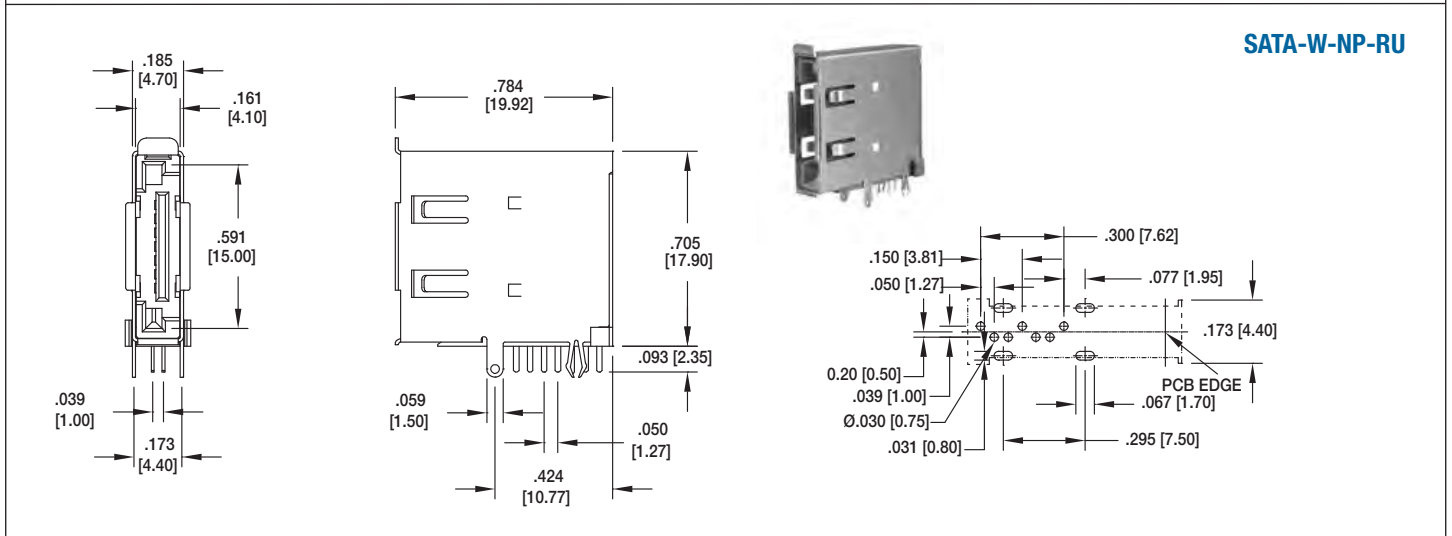
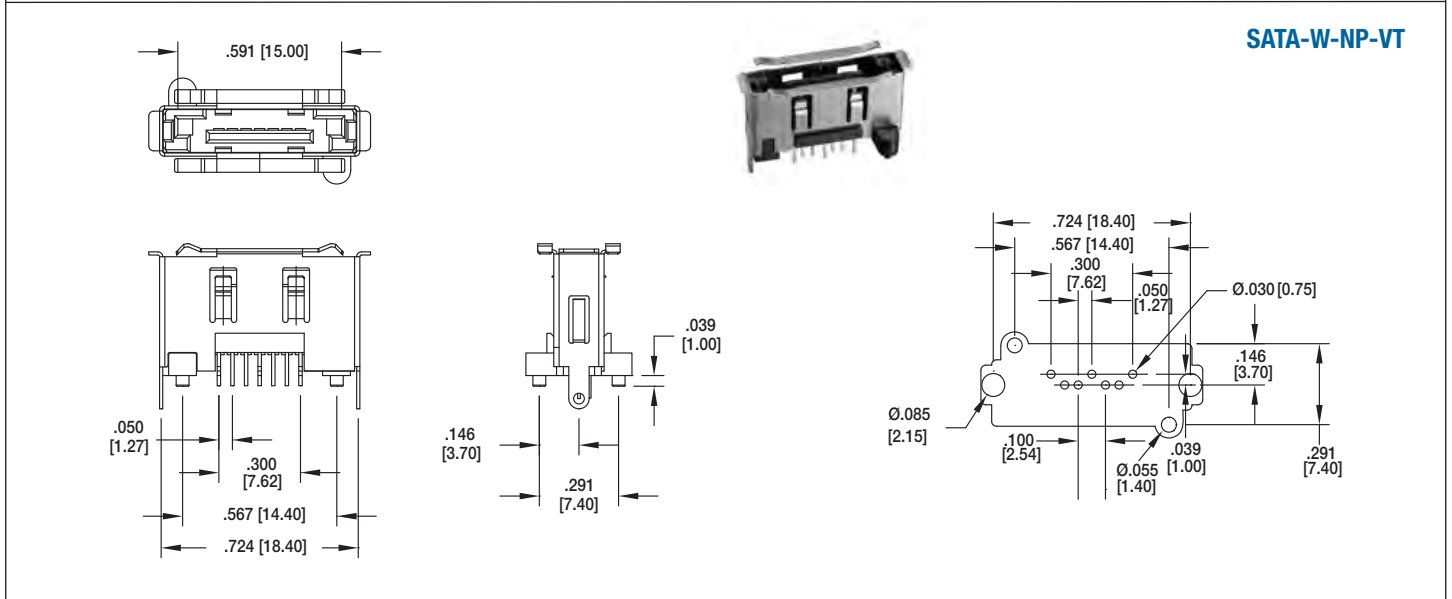
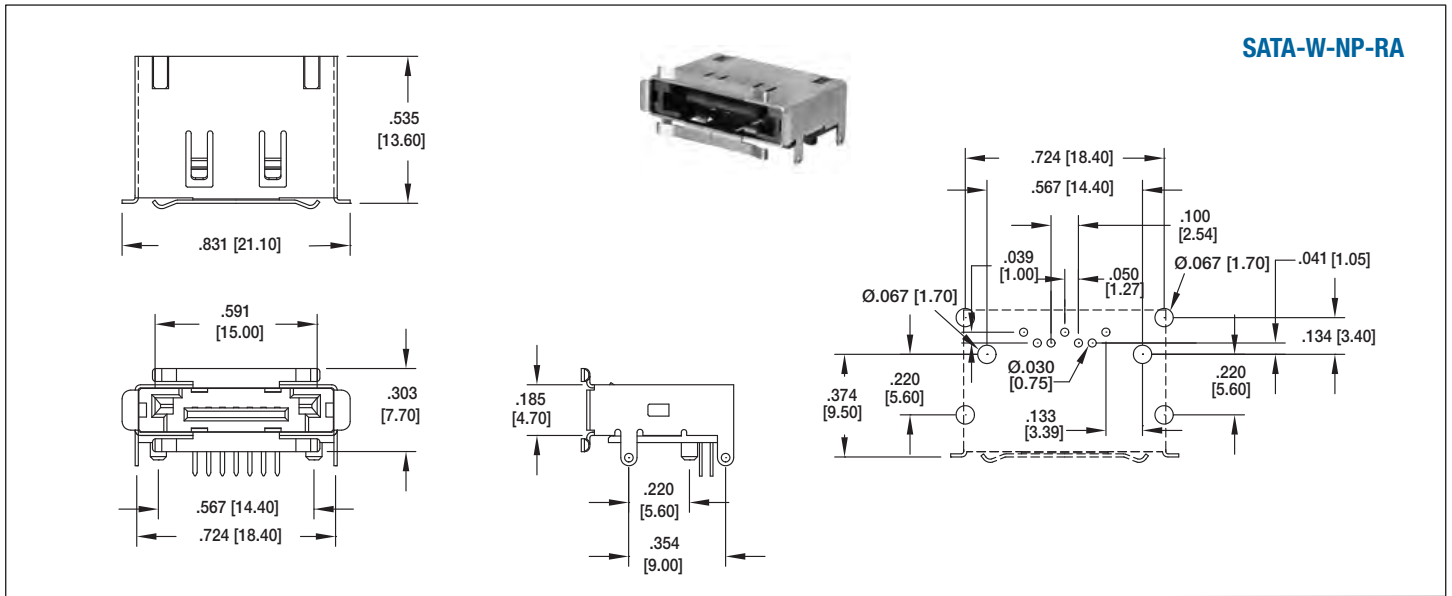


OPTIONS:

Add designator(s) to end of part number

- K** = Key
- S** = Side slots (type D)
- 30** = 30 μin gold plating in contact area
- P** = Locating Pegs

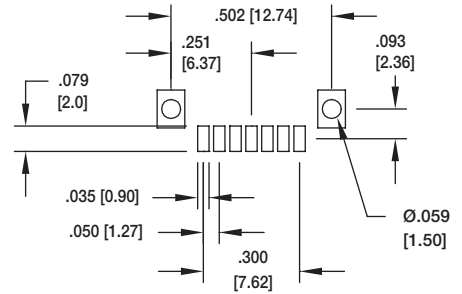
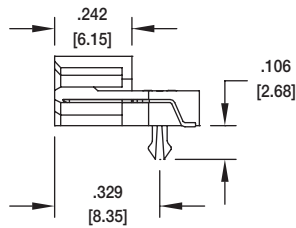
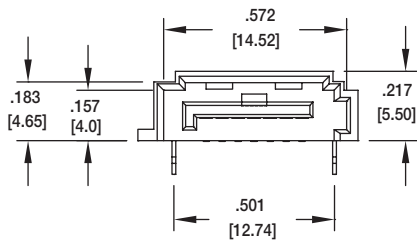
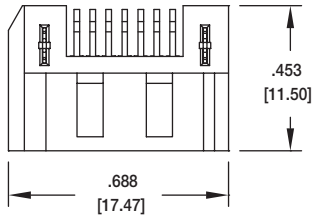




**SATA-A
SINGLE R/A
SMT**



SATA-A-PL-SMT-K

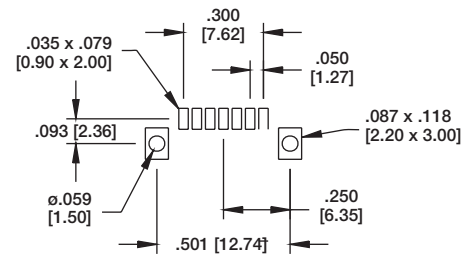
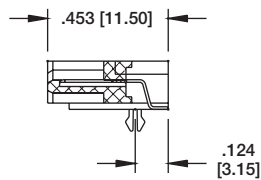
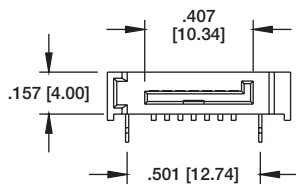
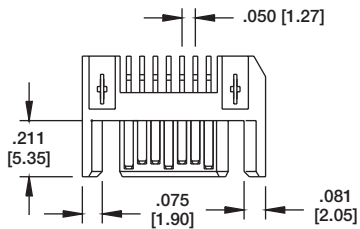


Recommended PCB Layout

**SATA-C
SINGLE R/A
SMT**

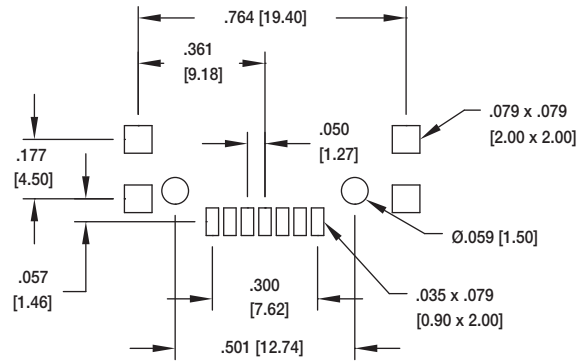
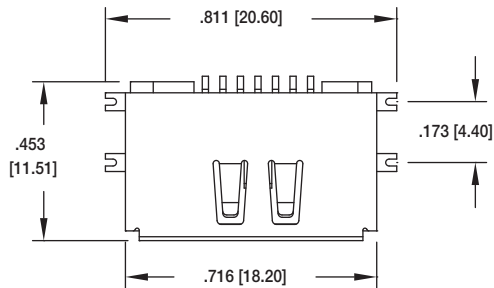


SATA-C-PR-SMT-K

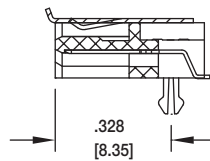
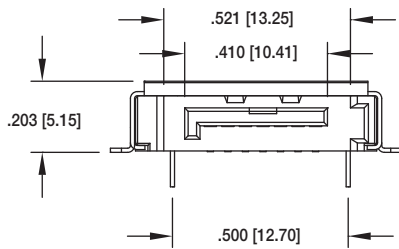


Recommended PCB Layout

SATA-B SHIELDED, R/A, TRUE SMT

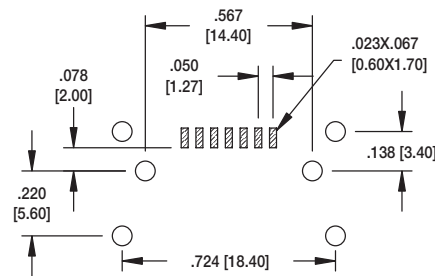
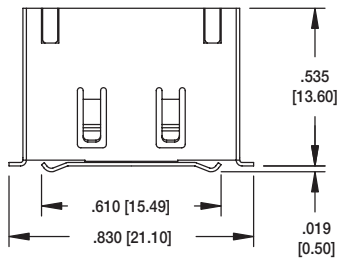


Recommended PCB Layout

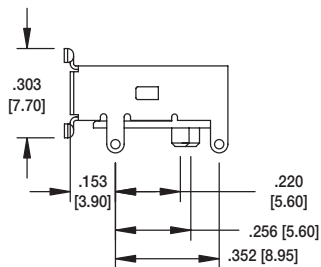
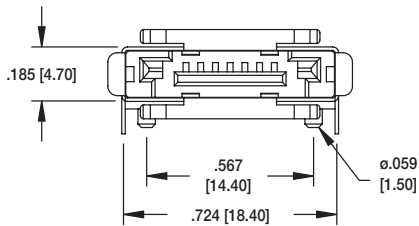


SATA-B-PL-SMT-K

SATA-J SHIELDED, R/A, SMT

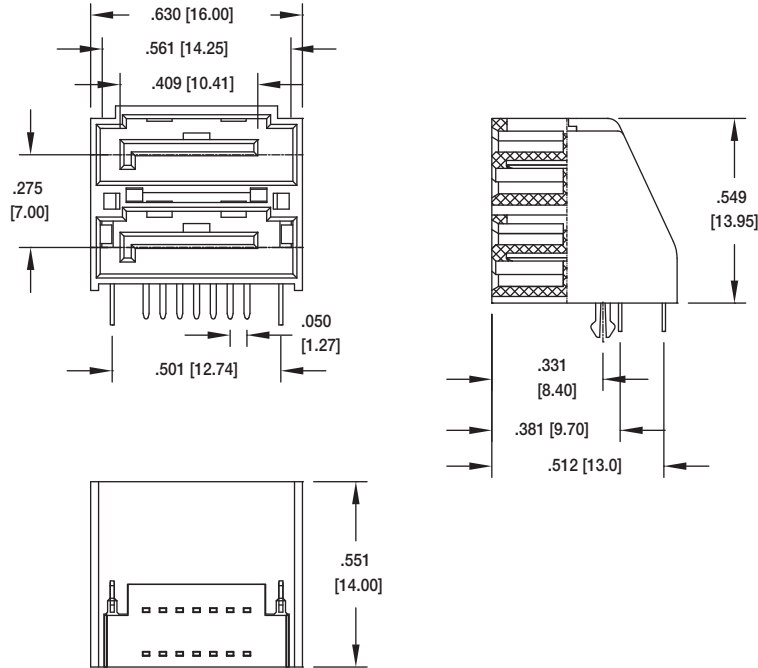


Recommended PCB Layout

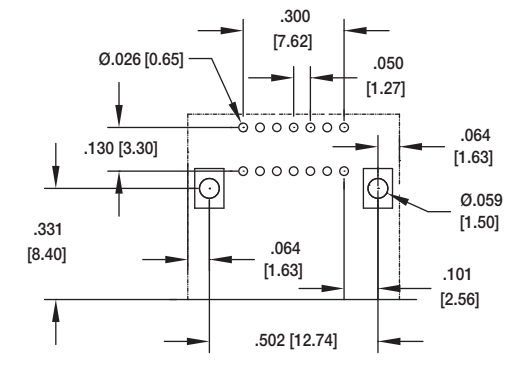


SATA-J-NP-SMT-P-S-PG

SATA-D DUAL STACKED, SMT

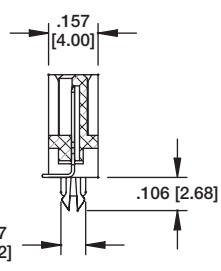
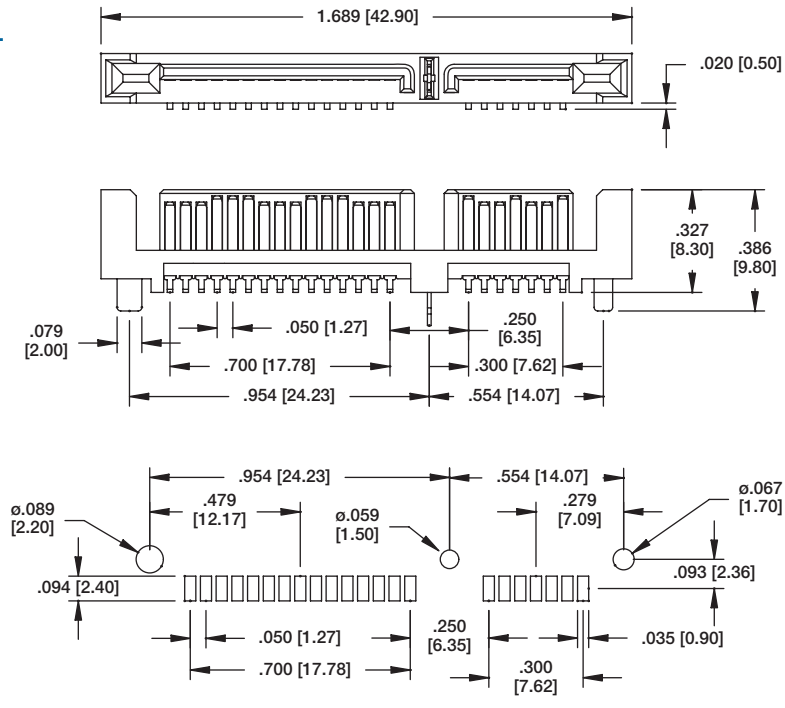


SATA-D-PL-RT



Recommended PCB Layout

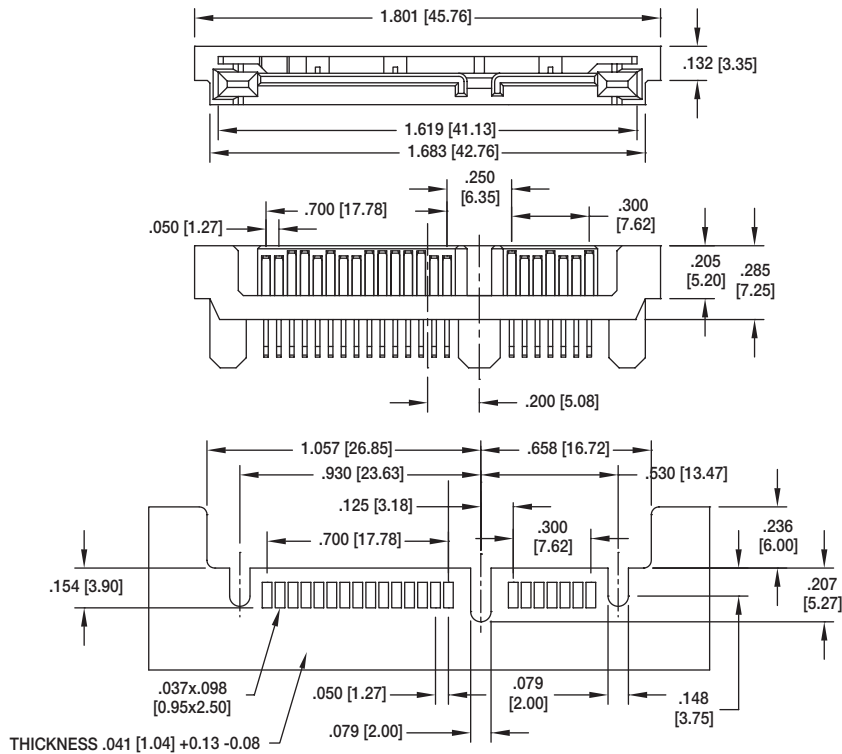
SATA-G DUAL VERTICAL SMT



SATA-G-PM-SMT

Recommended PCB Layout

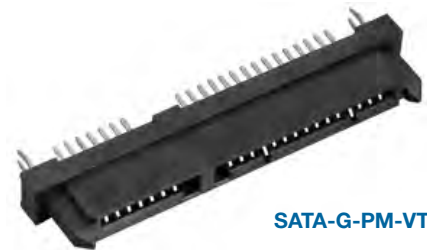
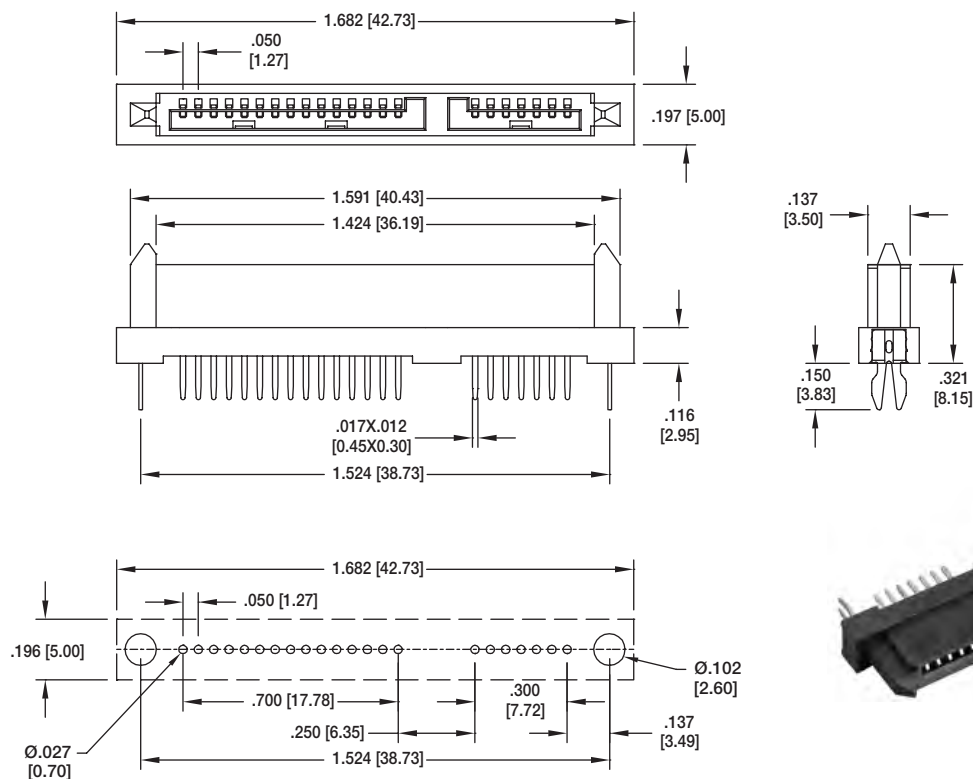
SATA-M DUAL STRADDLE MOUNT



SATA-M-PM-SMT

Recommended PCB Layout

SATA-G DUAL VERTICAL THRU-HOLE



SATA-G-PM-VT

Recommended PCB Layout

INTRODUCTION:

Adam Tech IEC & Mini IEC Series AC Inlets and Outlets are primary power receptacles designed, manufactured, tested and approved to UL, CSA, VDE and other applicable international specifications including IEC-60320 and CEE-22. Adam Tech offers a wide variety of body styles, shapes and orientations to accommodate most class I & II applications with two or three blade contacts in both IEC and Mini-IEC configurations. Mounting choices include screw holes and snap-in versions and four termination styles. Options of ganged ports or receptacle with integral fuse holder are also available.

FEATURES:

IEC & Mini-IEC types
IEC-60320, CEE-22 Compliant
UL, CSA and VDE approved
Multitude of Body Styles
Choice of terminations
Option of Integral Fuse Holder

MATING CONNECTORS:

Adam Tech PC series power cords and all standard international IEC 60320 power supply cords.

SPECIFICATIONS:

Material:

Insulator: Polycarbonate or Nylon 66, glass filled, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze or Brass

Plating:

Nickel over copper underplate. (Solder terminals: Tin over copper underplate)

Electrical:

Operating Voltage: 250V AC
Current Rating: IEC - UL & CSA: 15 Amps Max,
VDE: 10 Amps Max.
Mini IEC - UL, CSA & VDE 2.5 Amps Max.
Insulation Resistance: 100 MΩ Min. @ 500V DC
Dielectric Withstanding Voltage: 2000V AC for 1 Minute

Temperature Rating:

Operation Temperature: -25°C ~ +70°C

PACKAGING:

Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File Nos. E224051, E224052
ENEC Approved European Norm Electrical Certification



ORDERING INFORMATION

IEC	A	1	150
SERIES INDICATOR IEC = International inlet/outlet			
	TERMINALS 1 = .187" Quick-connect terminals 2 = .250" Quick-connect terminals 3 = Solder terminals .157" [4.0mm] 4 = Right Angle PCB mount 5 = Solder Terminals .098" [2.5mm]		PANEL THICKNESS (for body styles C, D & J only) Blank = Universal Snap 080 = 0.8mm Panel 120 = 1.2mm Panel 150 = 1.5mm Panel 200 = 2.0mm Panel 300 = 3.0mm Panel

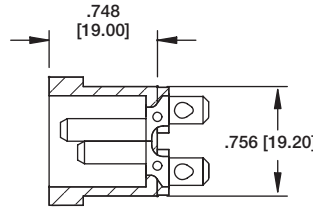
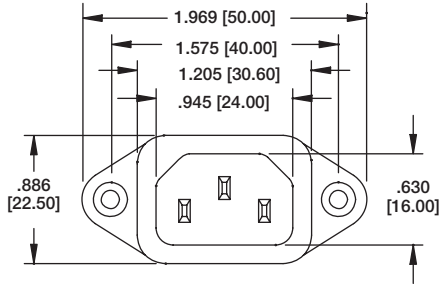
BODY STYLE

- A = Male Inlet, Screw-on panel mount
- B = Female Outlet, Screw-on panel mount
- C = Male Inlet, Snap-in panel mount
- D = Female Outlet, Snap-in panel mount
- E = Male Inlet, Right Angle PC board mount with mounting flange (Specify EW, EX, EY or EZ)
- F = Male Inlet, Screw on panel mount with 5 x 20mm fuse holder
- G = Male Inlet, Snap-in panel mount with 5 x 20mm fuse holder
- HS = Inlet/Outlet, snap-in panel mount
- HR = Inlet/outlet, snap-in panel mount, right angle PCB mount
- J = Male inlet, right angle PCB & tail with snap-in panel mounting
- NA = Mini-IEC right angle, snap-in
- NB = Mini-IEC right angle, slide-in
- NB-A = Mini-IEC right angle, slide-in with pegs
- NC = Mini-IEC right angle, with flush flange
- NC-A = Mini-IEC right angle, with extended face
- ND = Mini-IEC right angle, with enclosed body
- NF = Mini-IEC right angle, polarized with flange
- NH = Mini-IEC right angle, with ground pin
- NH-A = Mini-IEC right angle, flange mount with ground pin
- GS = Fused inlet with switch snap in panel mount
- FS = Fused inlet with switch screw on panel mount
- M = Female outlet, 20 AMP, Flanged
- N = Male inlet, 20 AMP, Snap-In

OPTIONS:

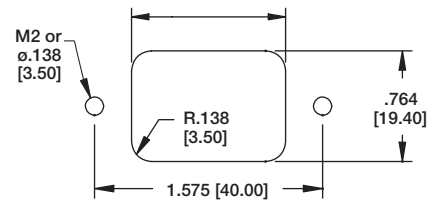
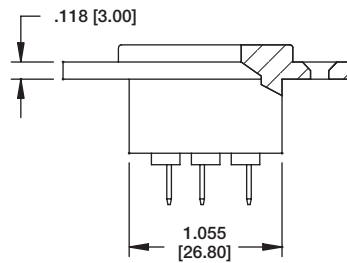
K = Keyed for 120° C (Body Styles A, C, E & J)

IEC-A SCREW ON PANEL MOUNT



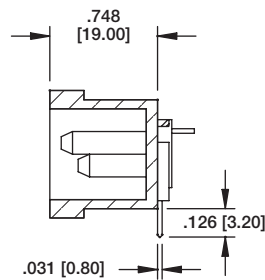
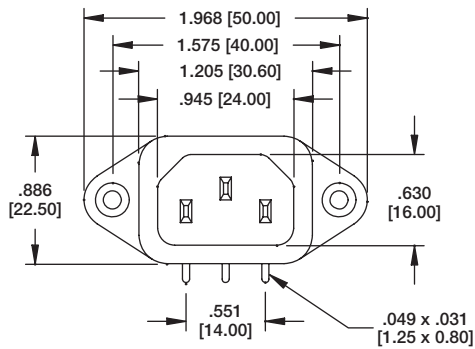
IEC-A-1

1.075 [27.30] Front Mounting
1.212 [30.80] Rear Mounting

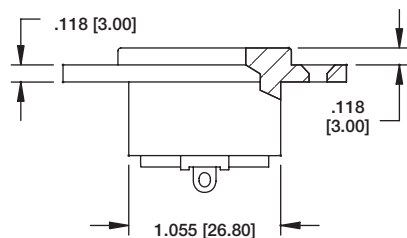


TERMINAL OPTIONS			
1	2	3	5
.187 Q.C.	.250 Q.C.	.157 Solder	.098 Solder

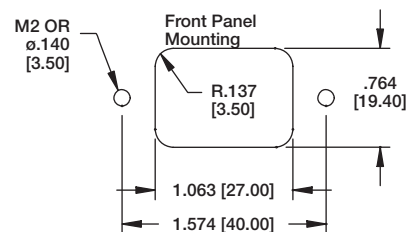
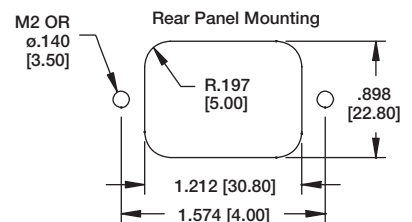
IEC-A SCREW ON PANEL RIGHT ANGLE PCB MOUNT



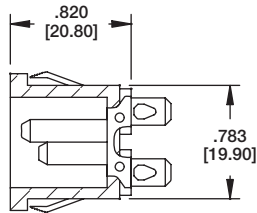
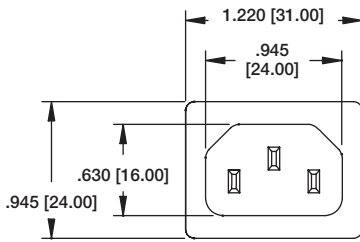
IEC-A-4



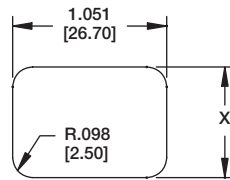
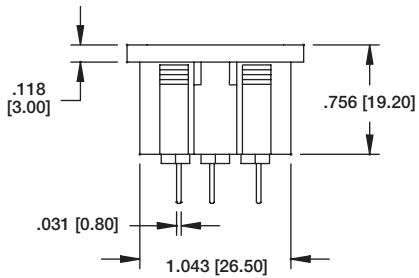
**Recommended
PCB Layout**



IEC-C UNIVERSAL PANEL SNAP



IEC-C-1

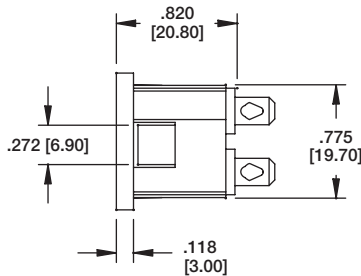
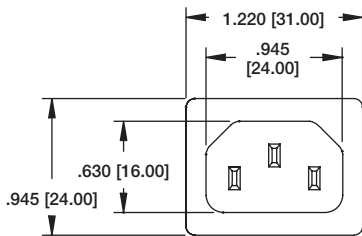


Recommended Panel Thickness: 0.8mm - 3.0mm

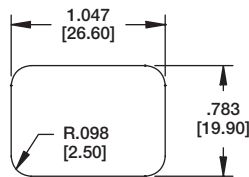
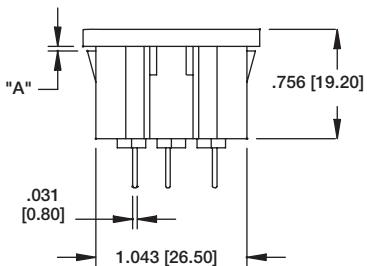
PANEL THICKNESS	DIM X
.031-.039 [0.8-1.0]	.780 [19.8]
.039-.059 [1.0-1.5]	.784 [19.9]
.079-.119 [2.0-3.0]	.788 [20.0]

TERMINAL OPTIONS			
1	2	3	5
.187 Q.C.	.250 Q.C.	.157 Solder	.098 Solder

IEC-C DEDICATED PANEL SNAP



IEC-C-1-150



Recommended Panel Cut-Out

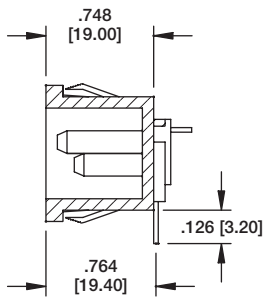
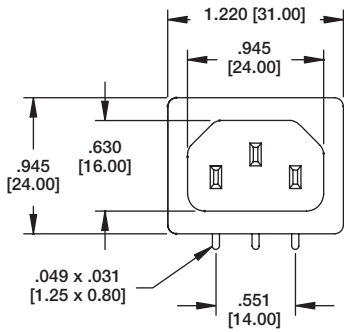
PANEL THICKNESS	PART NUMBER	DIM "A"
0.8mm	IEC-C-X-080	.031 [0.80]
1.5mm	IEC-C-X-150	.059 [1.50]
3.0mm	IEC-C-X-300	.118 [3.00]
4.0mm	IEC-C-X-400	.157 [4.00]

Replace X with terminal option below

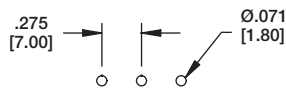
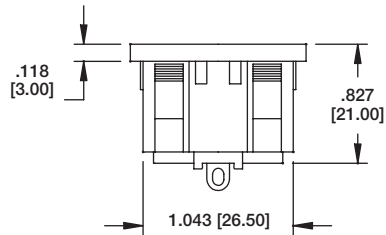
TERMINAL OPTIONS			
1	2	3	5
.187 Q.C.	.250 Q.C.	.157 Solder	.098 Solder

IEC-J

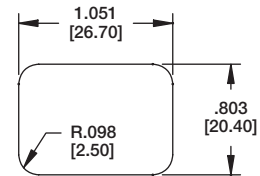
UNIVERSAL PANEL SNAP RIGHT ANGLE PCB MOUNT



IEC-J-4



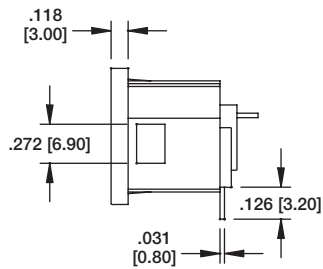
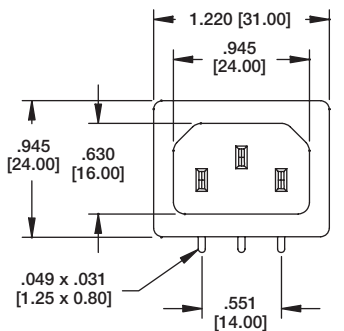
Recommended PCB
Layout



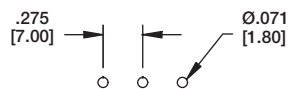
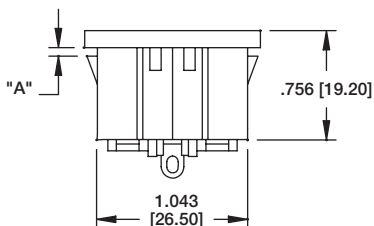
Recommended Panel
Thickness: 0.80 - 3.0mm

IEC-J

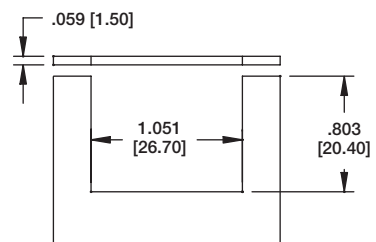
DEDICATED PANEL SNAP RIGHT ANGLE PCB MOUNT



IEC-J-4-150



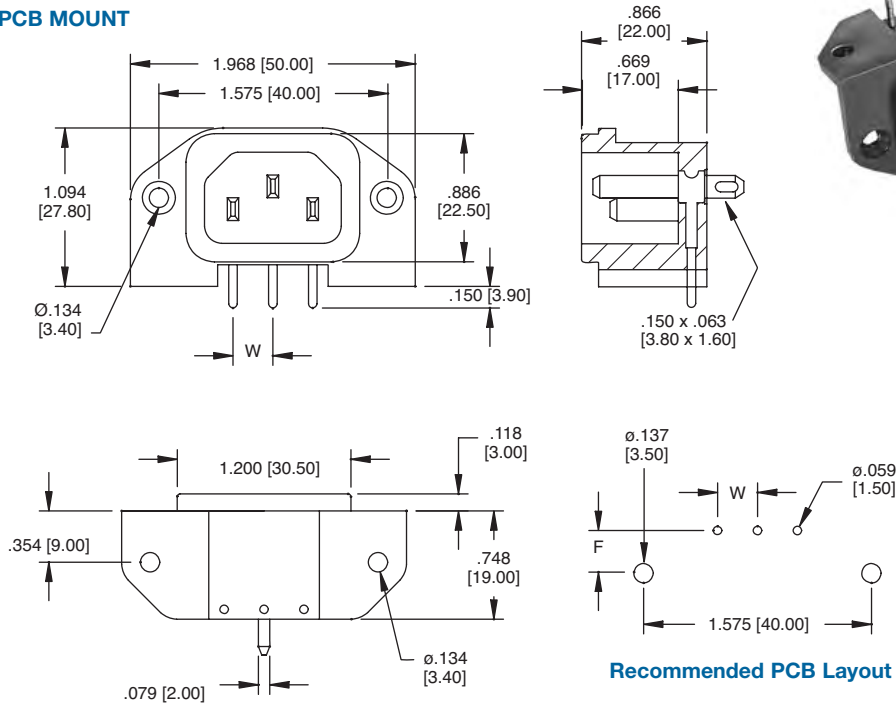
Recommended PCB
Layout



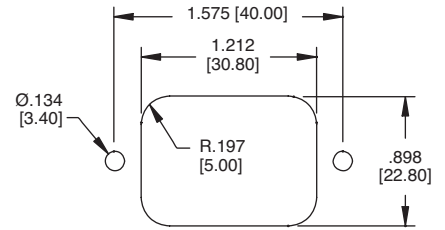
Recommended Panel Cut-Out

PANEL THICKNESS	PART NUMBER	DIM "A"
0.8mm	IEC-J-4-120	.047 [1.20]
1.5mm	IEC-J-4-150	.059 [1.50]
3.0mm	IEC-J-4-200	.079 [2.00]
4.0mm	IEC-J-4-300	.118 [3.00]

IEC-E FLANGED RIGHT ANGLE PCB MOUNT



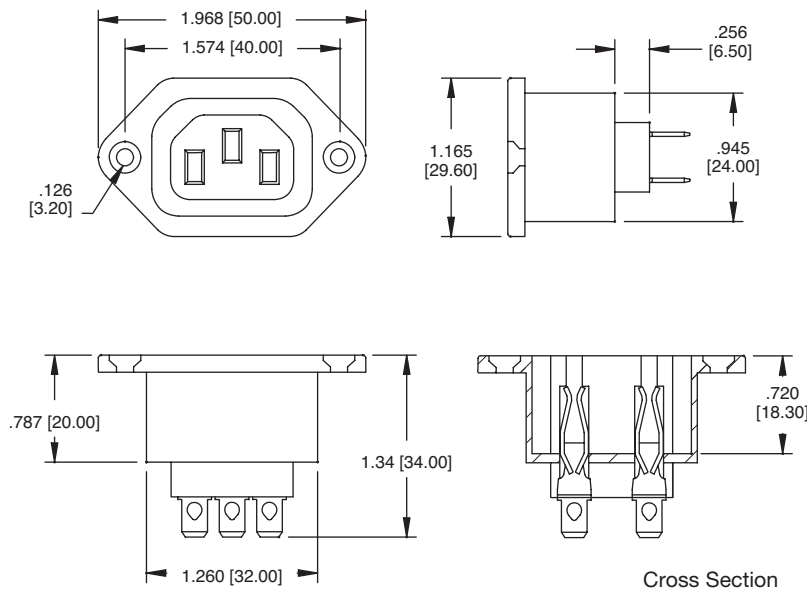
IEC-EW-4



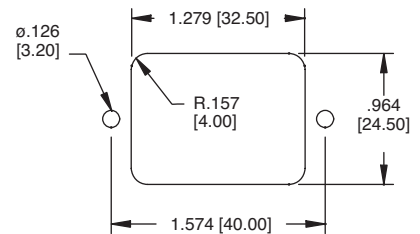
Recommended Panel Cut-Out

DIMENSIONAL		
PART NO.	F	W
IEC-EW	.287 [7.30]	.276 [7.00]
IEC-EX	.287 [7.30]	.358 [9.10]
IEC-EY	.382 [9.70]	.276 [7.00]
IEC-EZ	.382 [9.70]	.358 [9.10]

IEC-B FLANGED SCREW ON PANEL MOUNT



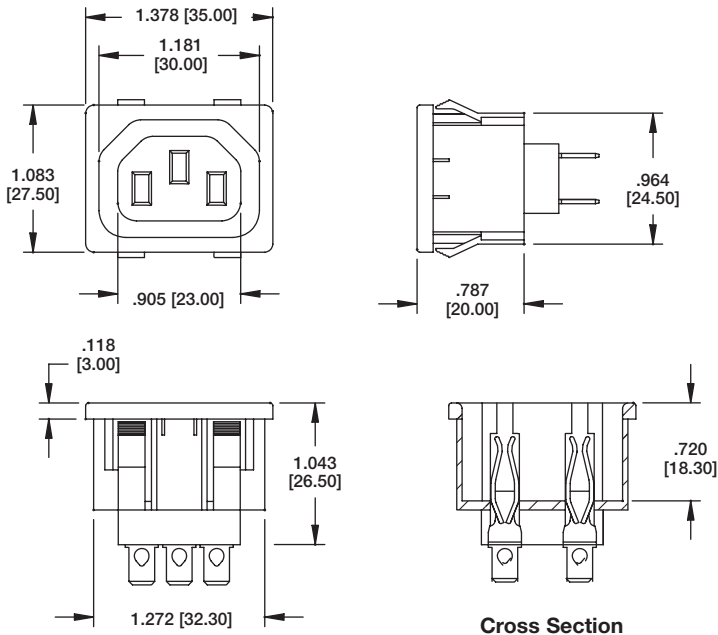
IEC-B-1



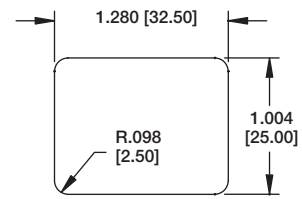
Recommended Panel Cut-Out

TERMINAL OPTIONS		
1	2	3
.187 Q.C.	.250 Q.C.	.157 Solder

IEC-D UNIVERSAL PANEL SNAP



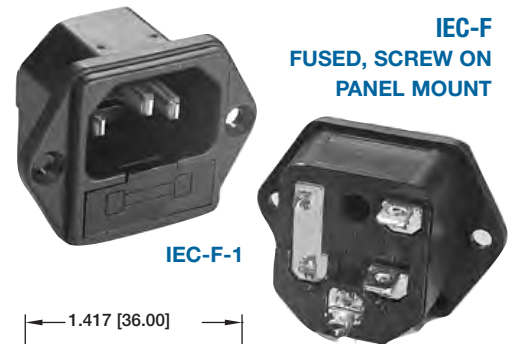
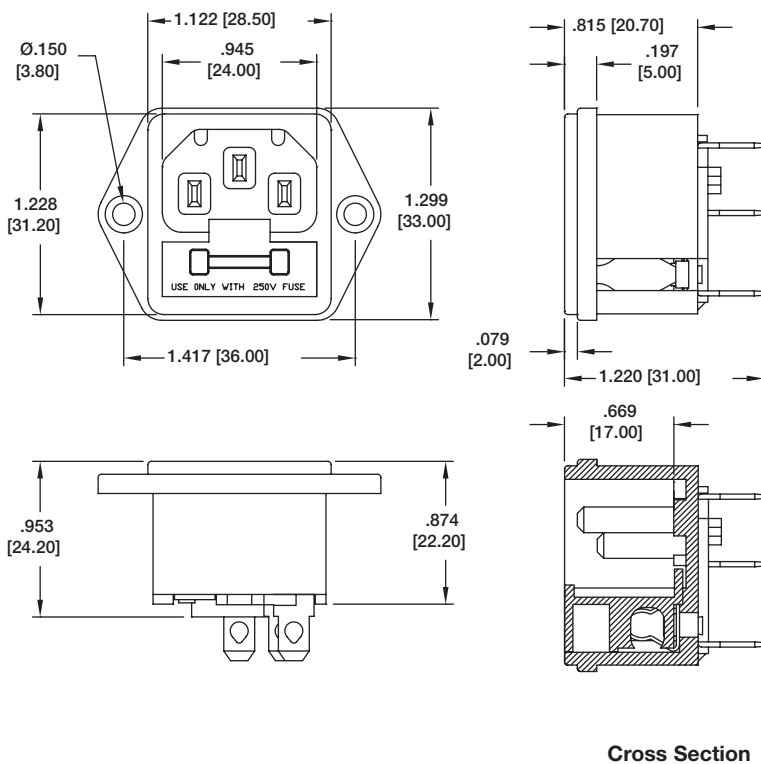
IEC-D-1



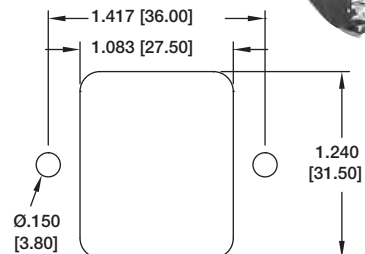
Recommended Panel Thickness:
0.8mm - 3.0mm

TERMINAL OPTIONS		
1	2	3
.187 Q.C.	.250 Q.C.	.157 Solder

IEC-F FUSED, SCREW ON PANEL MOUNT

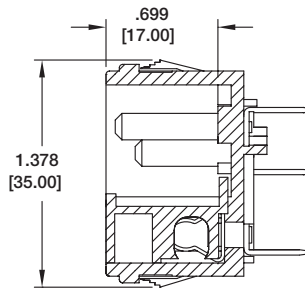
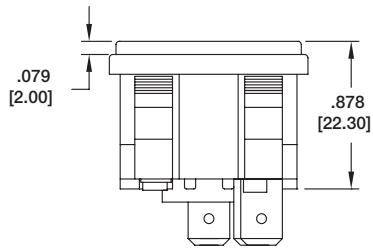
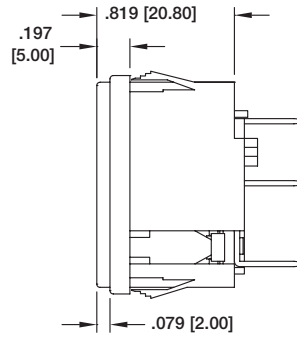
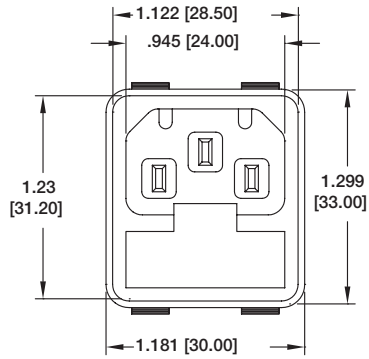


IEC-F-1



Recommended Panel Cut-Out

TERMINAL OPTIONS	
1	2
.187 Q.C.	.250 Q.C.



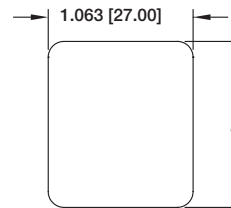
Cross Section

PANEL THICKNESS	DIM X
.031-.071 [0.8-1.8]	1.240 [31.50]
.075-.126 [1.9-3.2]	1.248 [31.70]



IEC-G-1

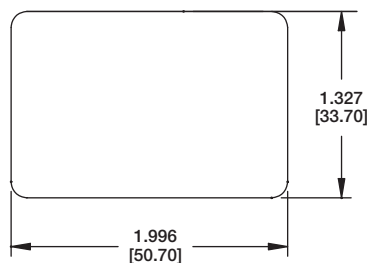
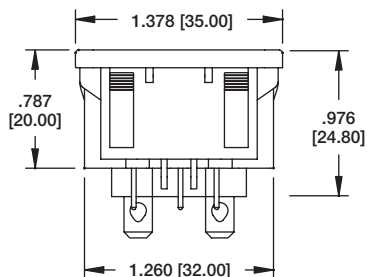
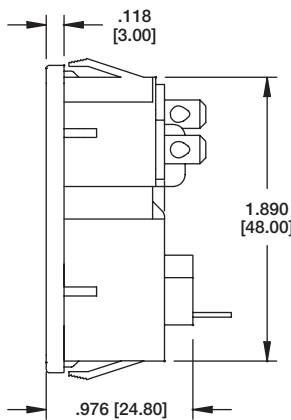
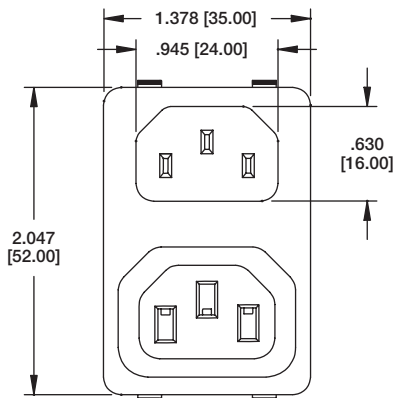
IEC-G
FUSED WITH UNIVERSAL
PANEL SNAP



PANEL THICKNESS	DIMENSIONS	
	A	
.031-.071 [0.80-1.80]	1.240 [31.50]	
.075-.126 [1.90-3.20]	1.248 [31.70]	

Recommended Panel Cut-Out

TERMINAL OPTIONS		
1	2	5
.187 Q.C.	.250 Q.C.	.157 Solder



Recommended Panel Cut-Out

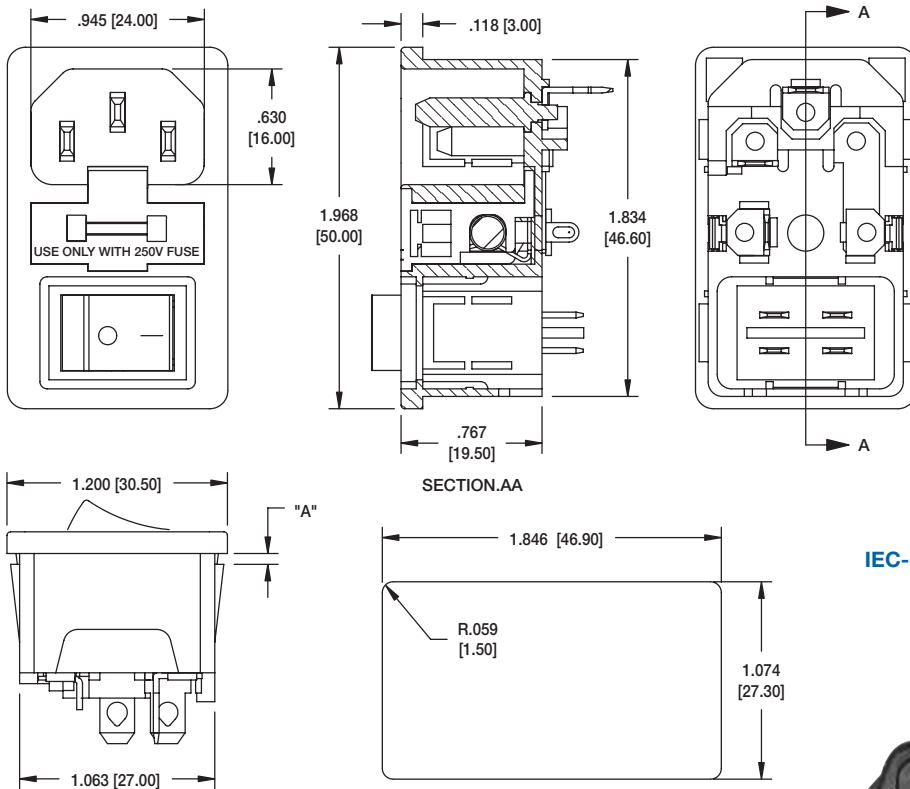
IEC-HS
FUSED INLET & OUTLET
WITH UNIVERSAL
PANEL SNAP



IEC-HS-1

IEC-GS-1

FUSED INLET WITH SWITCH, SNAP IN PANEL MOUNT



PART NUMBER	DIM "A"
IEC-GS-1-100	.039 [1.00]
IEC-GS-1-150	.059 [1.50]
IEC-GS-1-200	.079 [2.00]

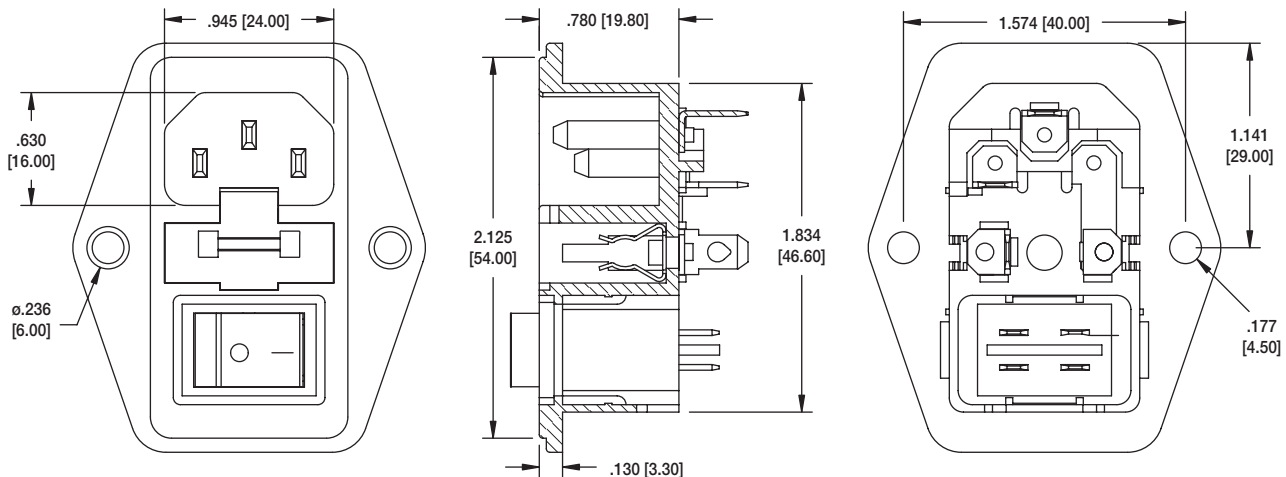
IEC-GS-1-100



Recommended Panel Cut-Out

IEC-FS-1

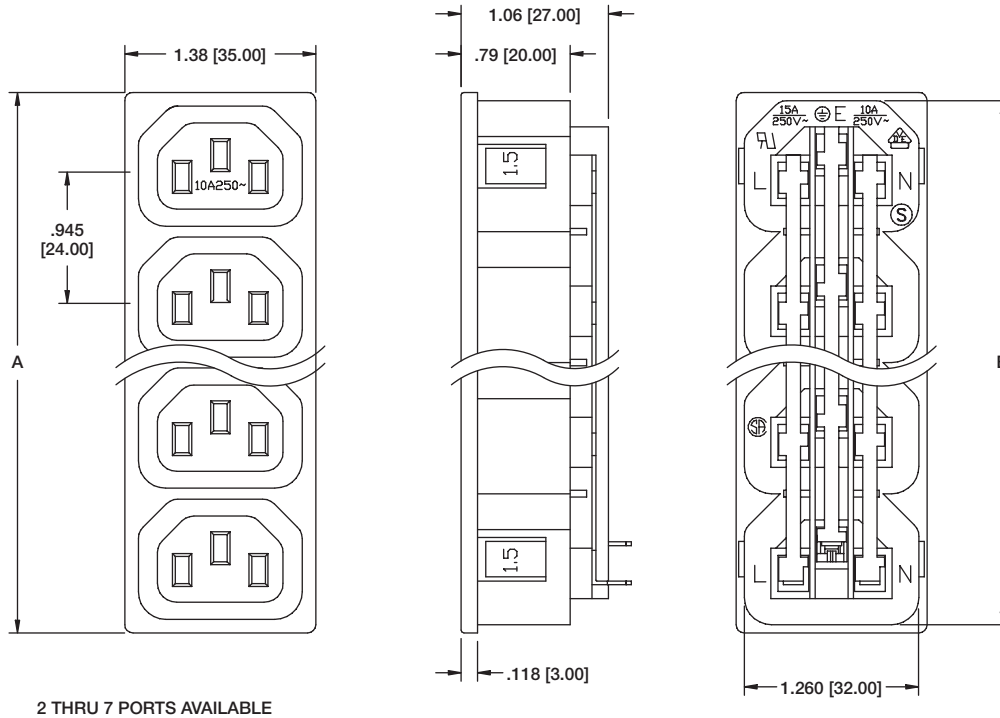
FUSED INLET WITH SWITCH,
SCREW ON PANEL MOUNT



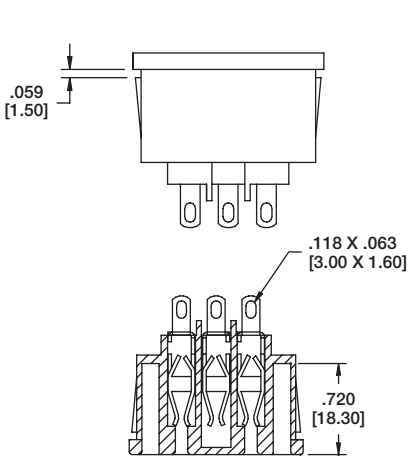
IEC-FS-1



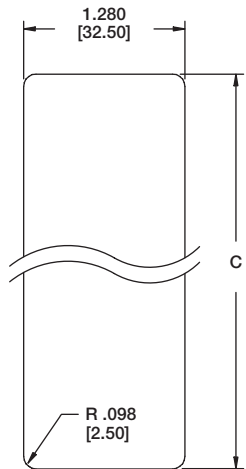
IEC-D-S
STACKED OUTLETS WITH
DEDICATED PANEL SNAPS



2 THRU 7 PORTS AVAILABLE



Cross Section



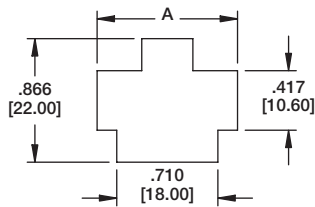
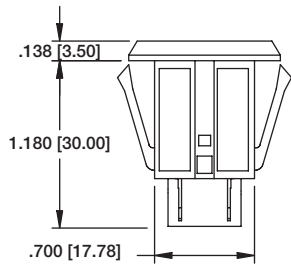
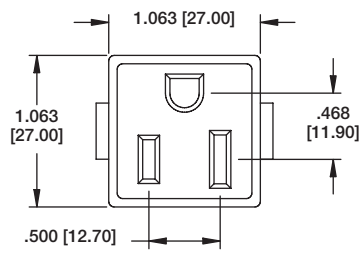
Recommended Panel Cut-Out



IEC-D-S4-150

DIMENSIONS				
PART NUMBER	PORTS	A	B	C
IEC-D-S2-150	2	2.007 [51.00]	1.890 [48.00]	1.901 [48.30]
IEC-D-S3-150	3	2.953 [75.00]	2.835 [72.00]	2.846 [72.30]
IEC-D-S4-150	4	3.897 [99.00]	3.780 [96.00]	3.791 [96.30]
IEC-D-S5-150	5	4.842 [123.00]	4.724 [120.00]	4.736 [120.30]
IEC-D-S6-150	6	5.787 [147.00]	5.670 [144.00]	5.681 [144.30]
IEC-D-S7-150	7	6.732 [171.00]	6.614 [168.00]	6.626 [168.30]

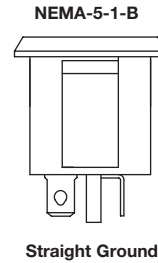
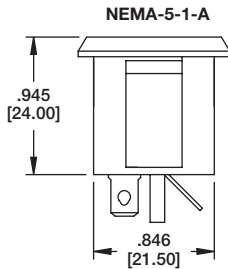
*PART NUMBERS SHOWN ARE FOR 1.5mm PANEL THICKNESS. CONSULT FACTORY FOR OTHER PANEL THICKNESSES REQUIREMENTS



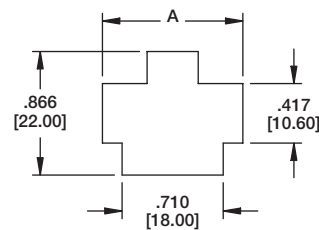
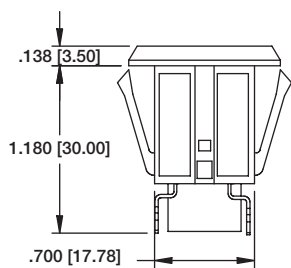
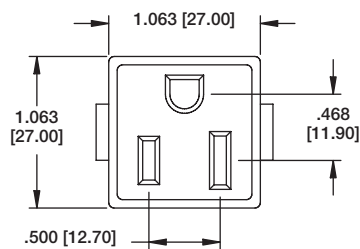
Recommended Panel Cut-Out For 1.50mm Panel Thickness

PANEL THICKNESS	DIM. A
.031 [0.80]	.945 [24.00]
.039 [1.00]	.968 [24.60]
.047 [1.20]	.992 [25.20]
.063 [1.60]	1.031 [26.20]

**NEMA-5-1-A
UNIVERSAL
PANEL SNAP**

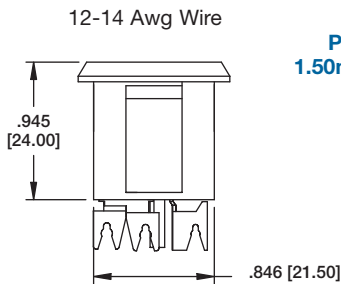


NEMA-5-1

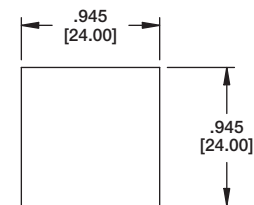
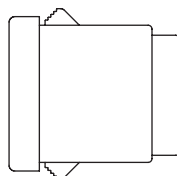
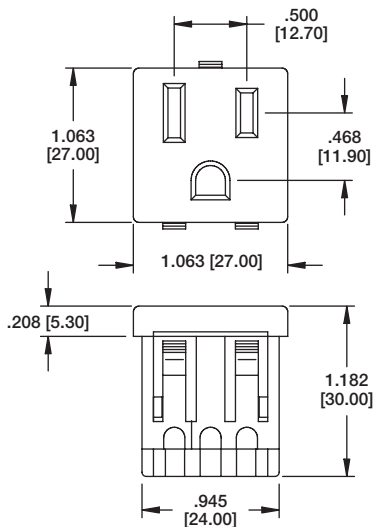


Recommended Panel Cut-Out For 1.50mm Panel Thickness

**NEMA-5-2
UNIVERSAL
PANEL SNAP**



NEMA-5-2



Recommended Panel Cut-Out For Panel 0.8mm - 1.50mm

**NEMA-5-3
UNIVERSAL
PANEL SNAP**



NEMA-5-3

Technical drawings for IEC-NA-4 showing front, side, and PCB layout views with dimensions:

- Front View: Overall width 1.102 [28.00], hole spacing .338 [8.60], hole diameter .630 [16.00].
- Side View: Overall height .886 [22.50], mounting tab width .433 [11.00].
- PCB Layout: Hole spacing .433 [11.00], hole diameter .047 x .098 [1.20 x 2.50].
- Recommended Panel Cut-Out: Overall width .964 [24.50], hole spacing .768 [19.50], hole diameter .492 [12.50], hole offset .295 [7.50].

IEC-NA-4
UNIVERSAL PANEL SNAP

Technical drawings for IEC-NB-4 showing front, side, and PCB layout views with dimensions:

- Front View: Overall width .866 [22.00], hole spacing .338 [8.60], hole diameter .590 [15.00].
- Side View: Overall height .886 [22.50], mounting tab width .433 [11.00].
- PCB Layout: Hole spacing .433 [11.00], hole diameter .047 x .098 [1.20 x 2.50].
- Recommended Panel Cut-Out: Overall width .756 [19.20], hole spacing .480 [12.20], hole diameter .059 [1.50].

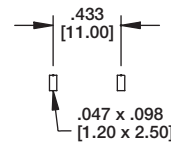
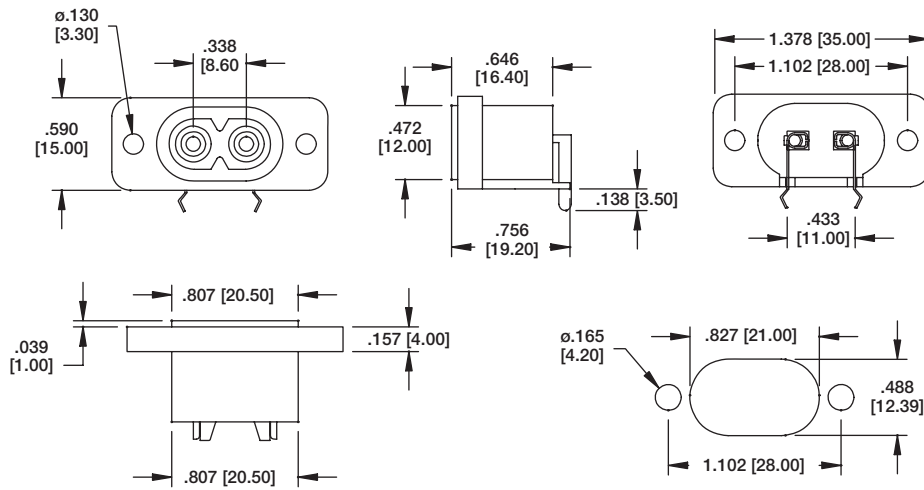
IEC-NB-4
DEDICATED PANEL SNAP

Technical drawings for IEC-NB-A-4 showing front, side, and PCB layout views with dimensions:

- Front View: Overall width .338 [8.60], hole spacing .689 [17.50].
- Side View: Overall height .590 [15.00], mounting tab width .567 [14.40].
- PCB Layout: Hole spacing .512 [13.00], hole diameter $\phi .118$ [3.00], hole diameter .043 x .059 [1.10 x 1.50].
- Recommended Panel Cut-Out: Overall width .787 [20.00], hole spacing .480 [12.20], hole diameter .059 [1.50].

IEC-NB-A-4
SLIDE ON PANEL

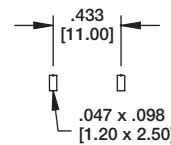
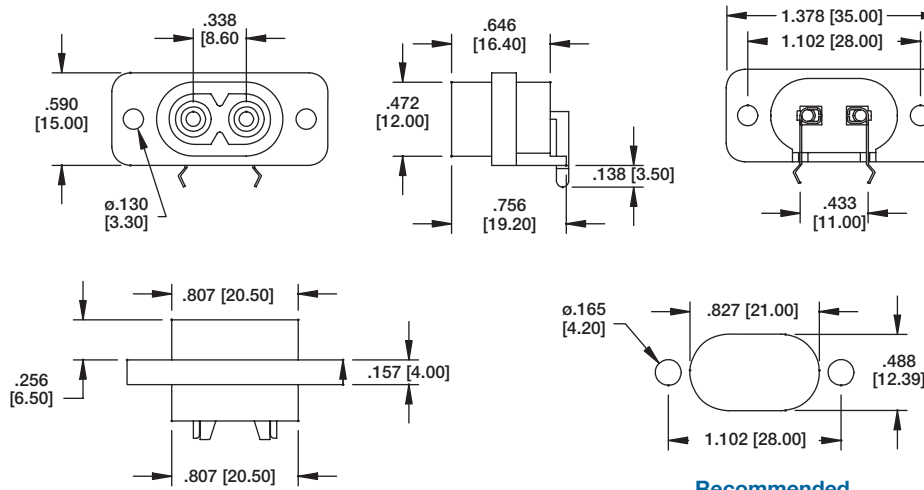
IEC-NC-4 RIGHT ANGLE PANEL MOUNT



Recommended
PCB Layout

Recommended
Panel Cut-Out

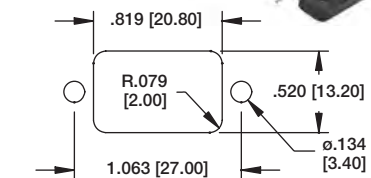
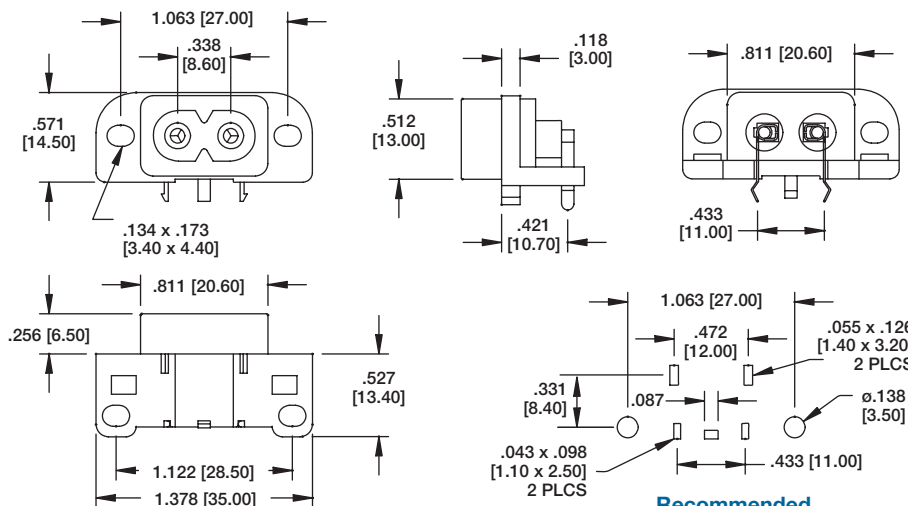
IEC-NC-A-4 RIGHT ANGLE PANEL MOUNT



Recommended
PCB Layout

Recommended
Panel Cut-Out

IEC-ND-4 RIGHT ANGLE PANEL MOUNT



Recommended
PCB Layout

Recommended
Panel Cut-Out

Technical drawings for IEC-NF-4 connector showing front, side, and PCB layout views with dimensions in inches and millimeters.

Recommended PCB Layout

Recommended Panel Cut-Out

IEC-NF-4
RIGHT ANGLE
PANEL MOUNT

Technical drawings for IEC-NH-4 connector showing front, side, and PCB layout views with dimensions in inches and millimeters.

Recommended PCB Layout

Recommended Panel Cut-Out

IEC-NH-4
RIGHT ANGLE
SLIDE ON PANEL

Technical drawings for IEC-NH-A-4 connector showing front, side, and PCB layout views with dimensions in inches and millimeters.

Recommended PCB Layout

Recommended Panel Cut-Out

IEC-NH-A-4
RIGHT ANGLE
SCREW ON PANEL MOUNT

INTRODUCTION:

Adam Tech PLF Series is a complete range of Power Line Filters designed for use in electric equipment that needs to meet FCC and other worldwide agency requirements for EMI/RFI emissions. This series offers numerous termination styles and levels of filtering and circuit protection for specific applications. Included are chassis mount, chassis mount with IEC Power Connector, panel mount and power entry modules with integral fuse and or switch.

FEATURES:

Modules offer compact space and cost effectiveness
Meets low leakage requirements
Superior common mode and differential mode attenuation.

MATING CONNECTORS:

Adam Tech PC series power cords and all international IEC 60320 power supply cords.

SPECIFICATIONS:

Material:

Insulator: Polycarbonate or Nylon 66, glass filled, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze
Casing: Thermoplastic rated UL94V-0 or Copper Alloy, nickel plated

Terminal Plating:

Quick connect: Nickel over copper underplate
Solder terminals: Tin over copper underplate
PC Pins: Tin over copper underplate

Electrical:

Operation Voltage: 120 / 250V AC
Current Rating: UL & CSA: 15 Amps Max,
VDE: 10 Amps Max.
Insulation Resistance: 3000 MΩ Min.
Dielectric Withstanding Voltage: 1500V AC for 1 Minute
Leakage Current: 0.5mA Max 250V, 50Hz

Temperature Rating:

Operation Temperature: -25°C to +70°C

PACKAGING:

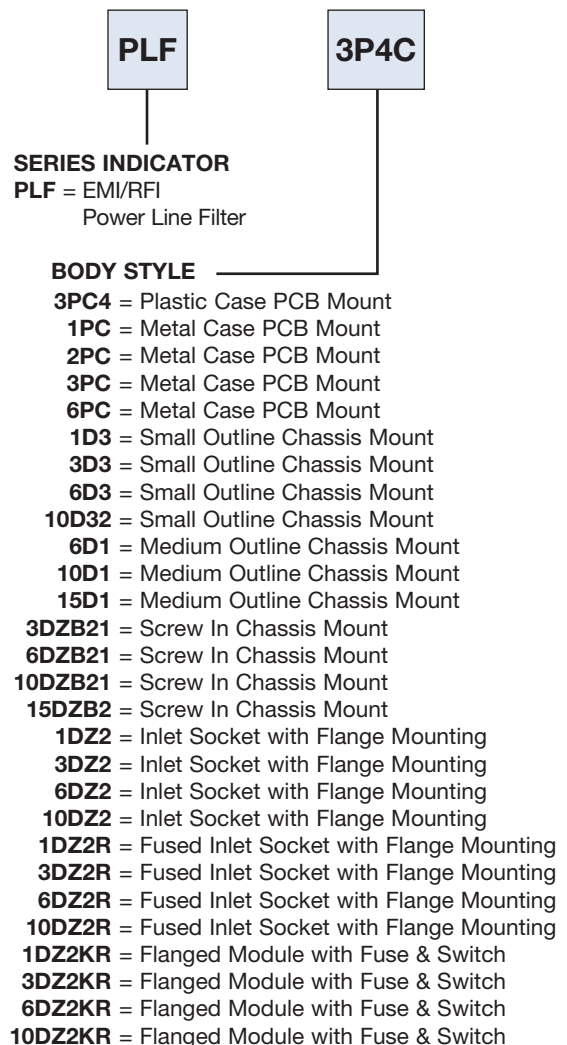
Anti-ESD plastic trays

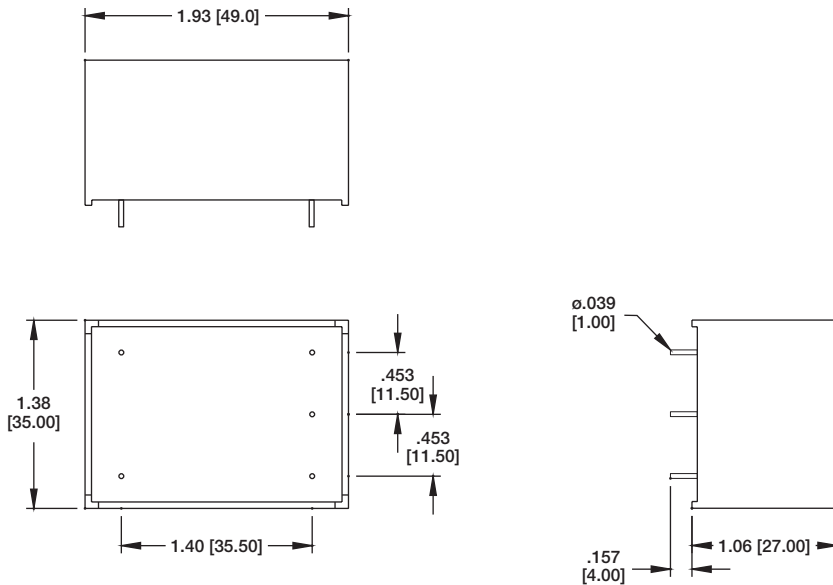
SAFETY AGENCY APPROVALS:

UL Recognized File no. E244331



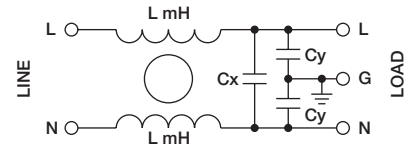
ORDERING INFORMATION





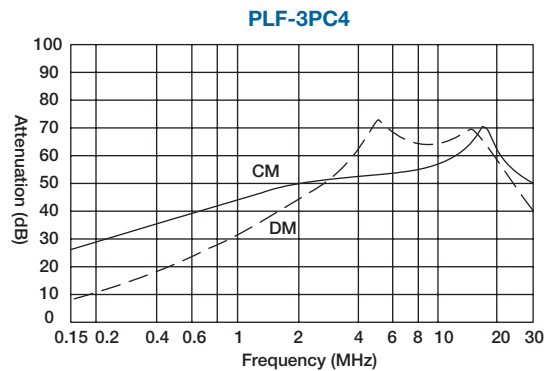
PLF-3PC4

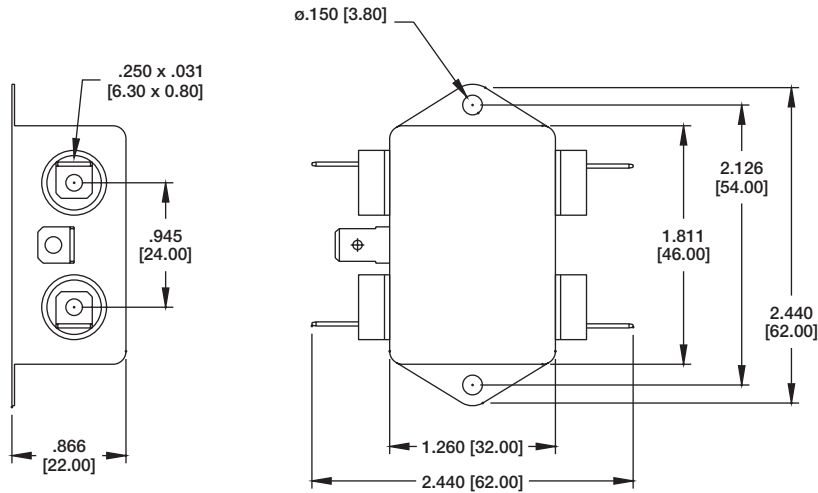
PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-3PC4	250V AC	3 AMP	2.2 nF	0.5mA MAX.



CIRCUIT DIAGRAM

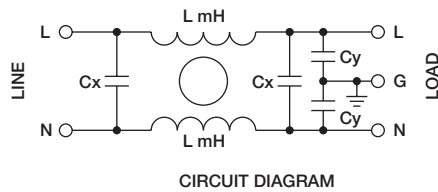
Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)



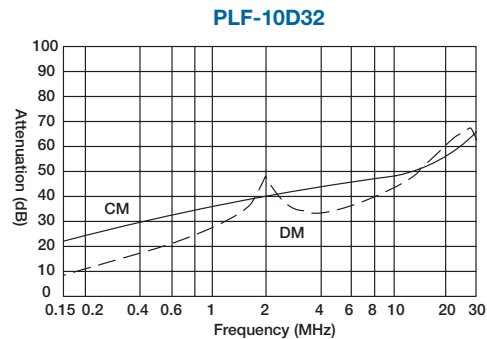
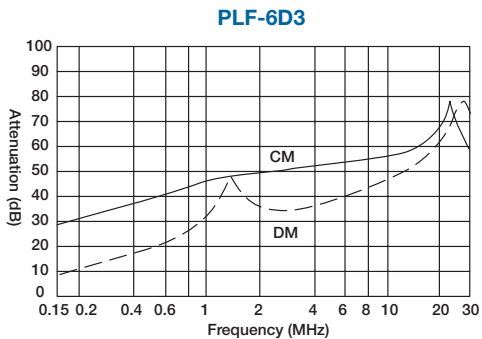
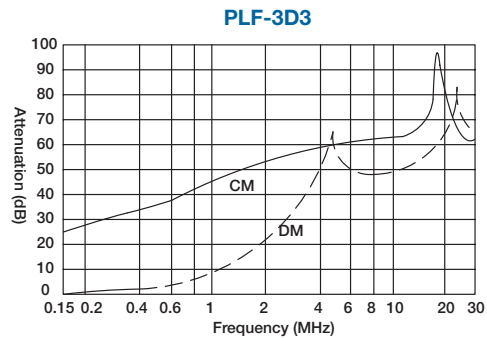
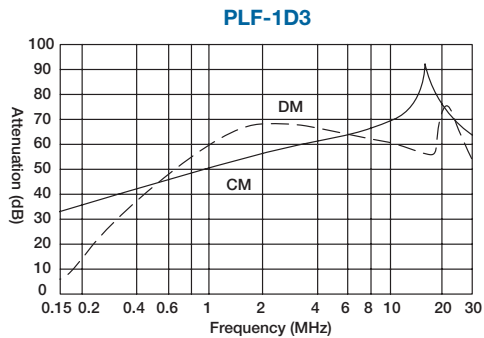


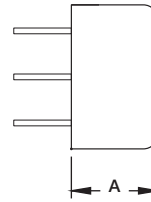
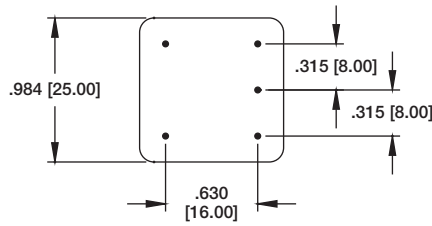
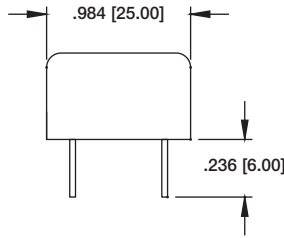
PLF-1D3

PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-1D3	250V AC	1 AMP	4.7 nF	0.5mA MAX.
PLF-3D3	250V AC	3 AMP	3.3 nF	0.5mA MAX.
PLF-6D3	250V AC	6 AMP	3.3 nF	0.5mA MAX.
PLF-10D32	250V AC	10 AMP	2.2 nF	0.5mA MAX.



Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

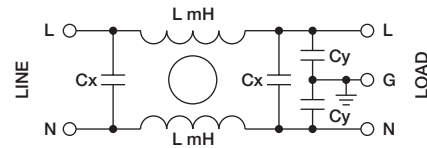




PLF-3PC

DIM "A"	
PLF-1PC	.590 [15.00]
PLF-2PC	.787 [20.00]
PLF-3PC	.787 [20.00]
PLF-6PC	.787 [20.00]

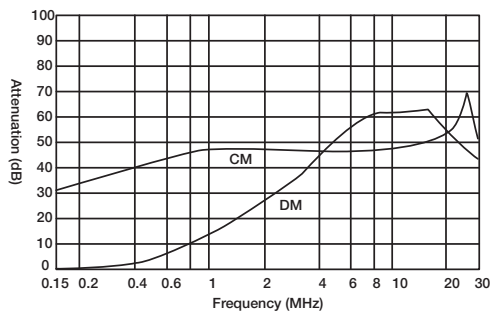
PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-1PC	250V AC	1 AMP	2.2 nF	0.5mA MAX.
PLF-2PC	250V AC	2 AMP	2.2 nF	0.5mA MAX.
PLF-3PC	250V AC	3 AMP	2.2 nF	0.5mA MAX.
PLF-6PC	250V AC	6 AMP	3.3 nF	0.5mA MAX.



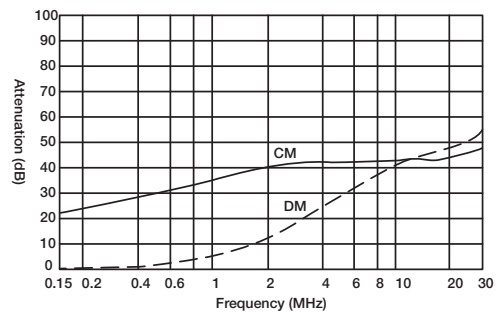
CIRCUIT DIAGRAM

Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

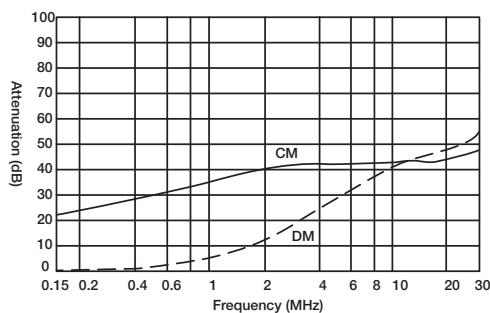
PLF-1PC



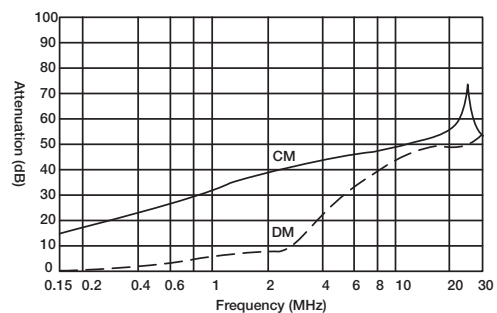
PLF-2PC

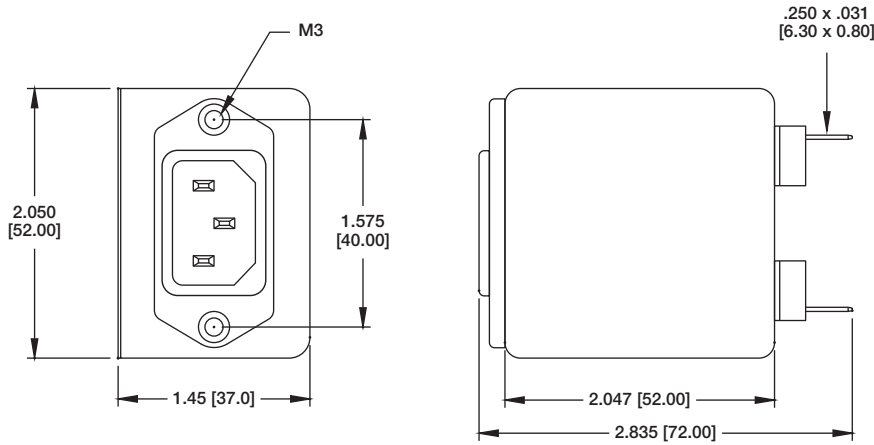


PLF-3PC



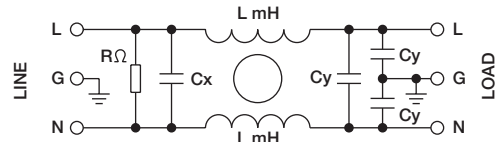
PLF-6PC





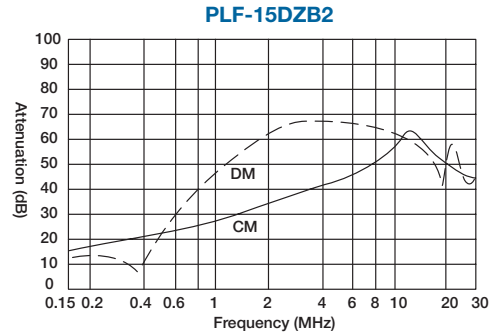
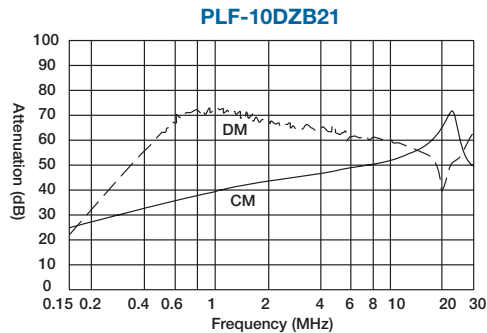
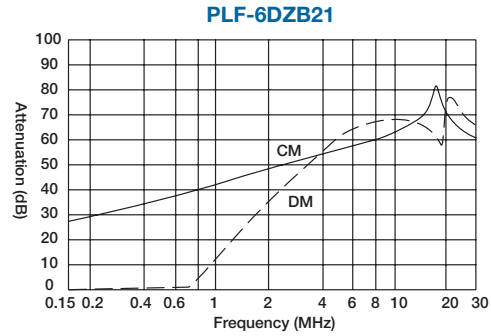
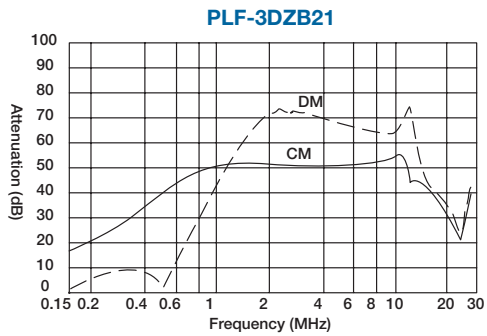
PLF-15DZB2

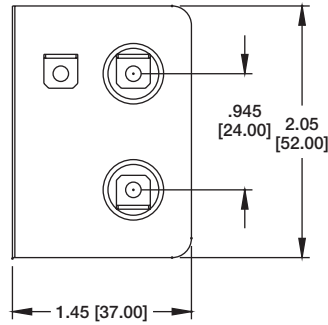
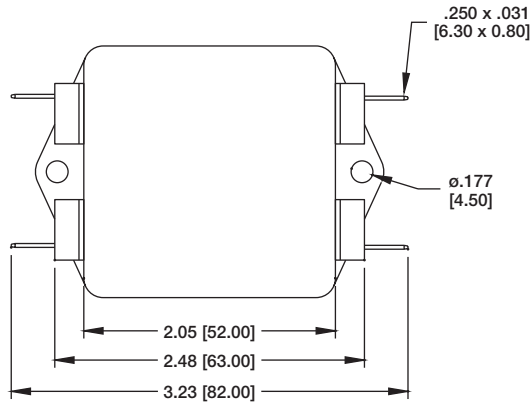
PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-3DZB21	250V AC	3 AMP	4.7 nF	0.5mA MAX.
PLF-6DZB21	250V AC	6 AMP	4.7 nF	0.5mA MAX.
PLF-10DZB21	250V AC	10 AMP	3.3 nF	0.5mA MAX.
PLF-15DZB2	250V AC	15 AMP	3.3 nF	0.5mA MAX.



CIRCUIT DIAGRAM

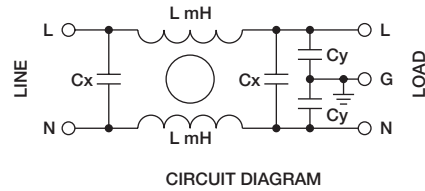
Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No.



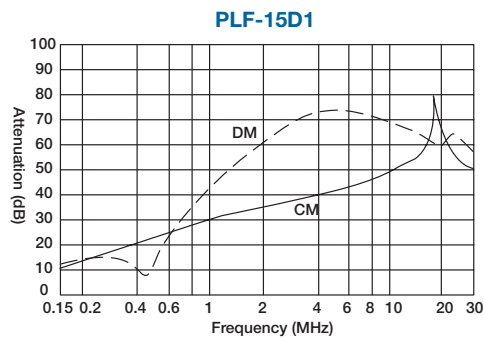
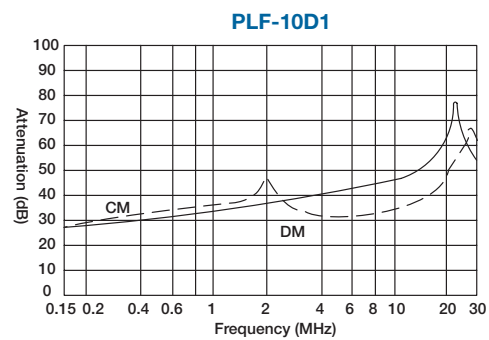
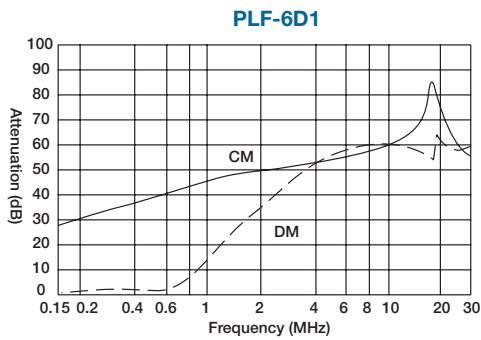


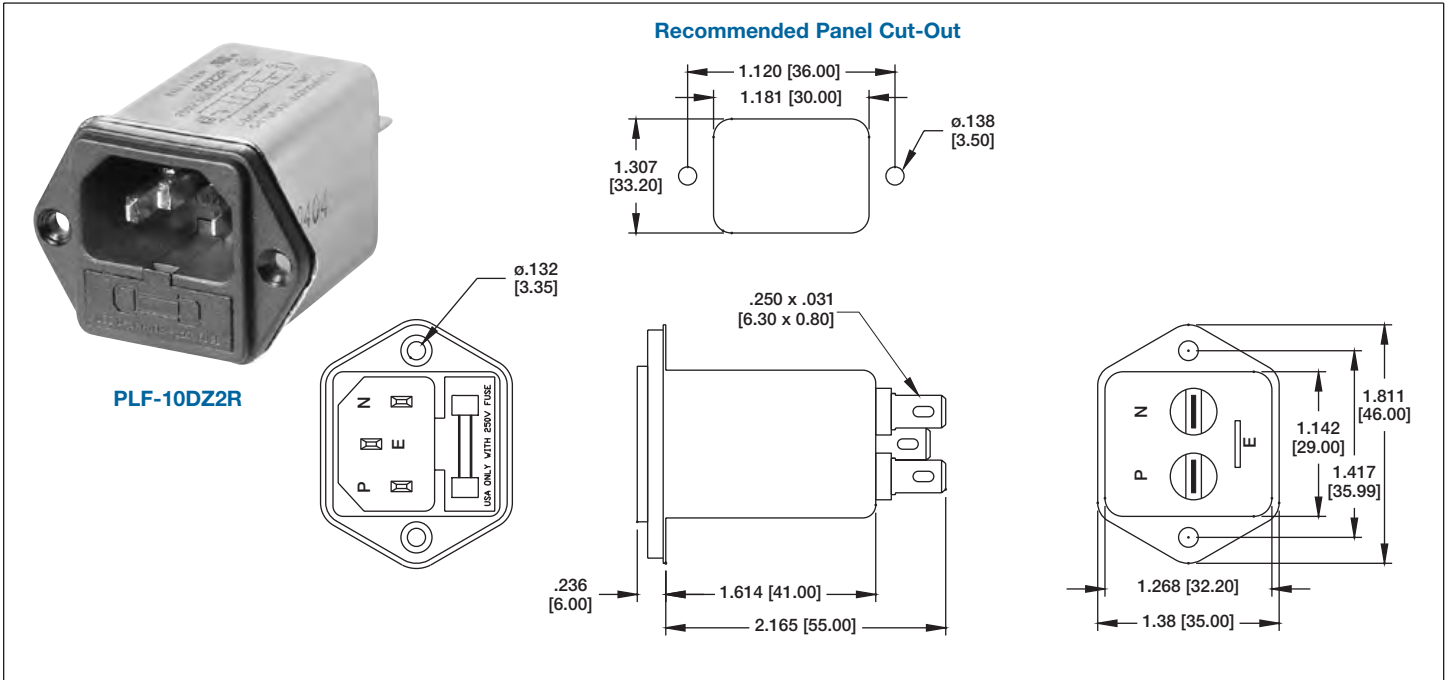
PLF-10D1

PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-6D1	250V AC	6 AMP	3.3 nF	0.5mA MAX.
PLF-10D1	250V AC	10 AMP	3.3 nF	0.5mA MAX.
PLF-15D1	250V AC	15 AMP	3.3 nF	0.5mA MAX.

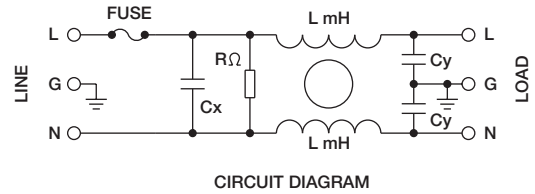


Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

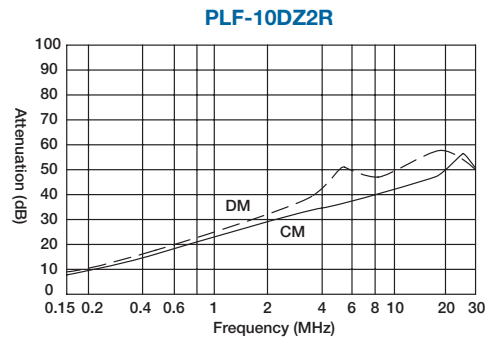
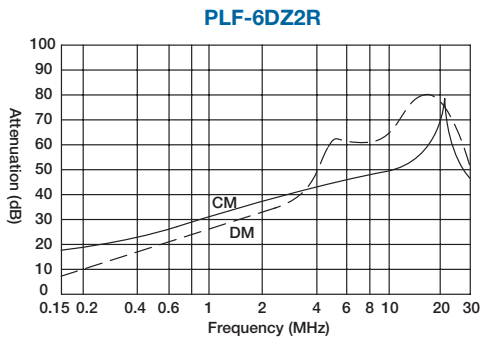
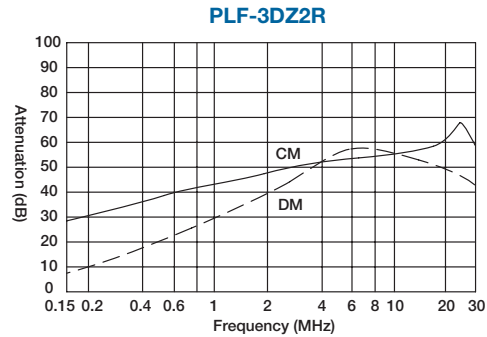
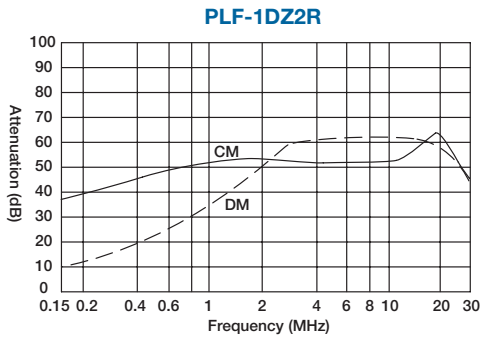


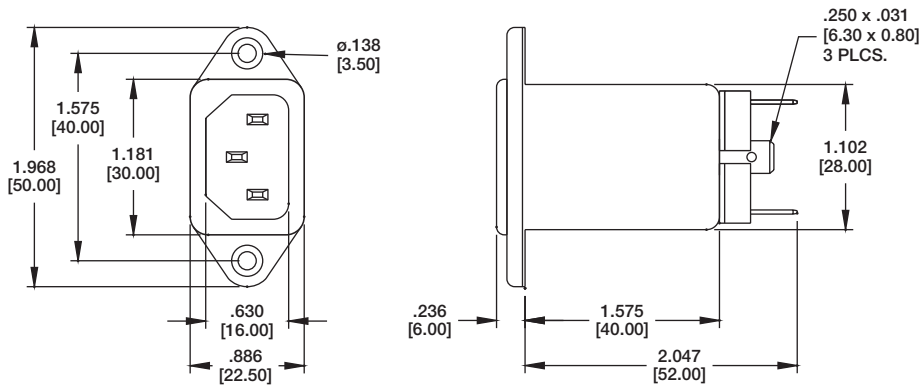


PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-1DZ2R	250V AC	1 AMP	2.2 nF	0.5mA MAX.
PLF-3DZ2R	250V AC	3 AMP	2.2 nF	0.5mA MAX.
PLF-6DZ2R	250V AC	6 AMP	2.2 nF	0.5mA MAX.
PLF-10DZ2R	250V AC	10 AMP	2.2 nF	0.5mA MAX.

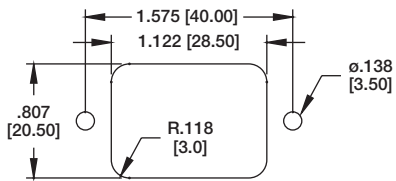


Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

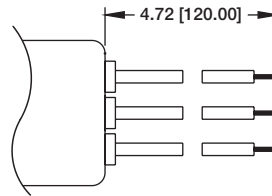




PLF-3DZ2



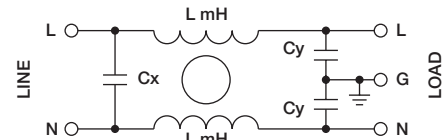
Recommended Panel Cut-Out



WIRE LEAD OPTION

PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-1DZ2	250V AC	1 AMP	2.2 nF	0.5mA MAX.
PLF-3DZ2	250V AC	3 AMP	3.3 nF	0.5mA MAX.
PLF-6DZ2	250V AC	6 AMP	3.3 nF	0.5mA MAX.
PLF-10DZ2	250V AC	10 AMP	4.7 nF	0.5mA MAX.

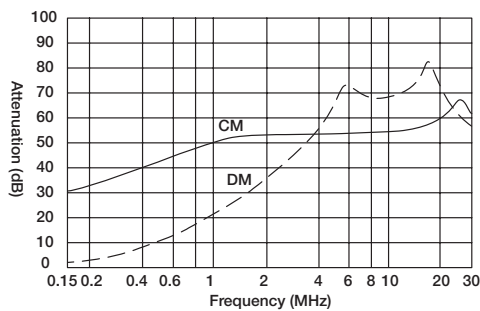
Medical Grade available, PLF-XDZW2



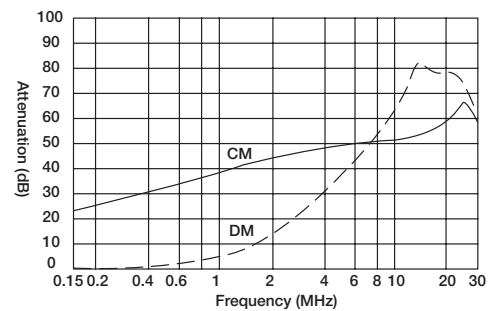
CIRCUIT DIAGRAM

Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)

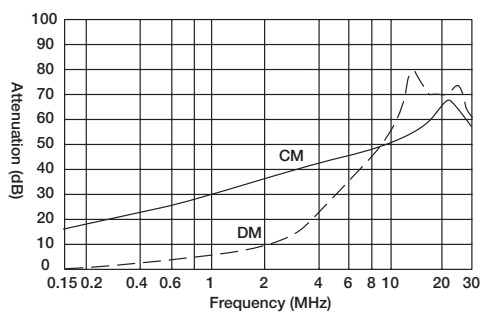
PLF-1DZ2



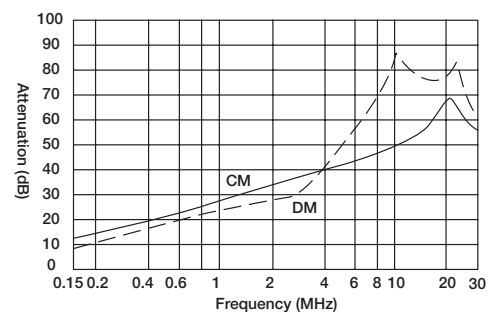
PLF-3DZ2

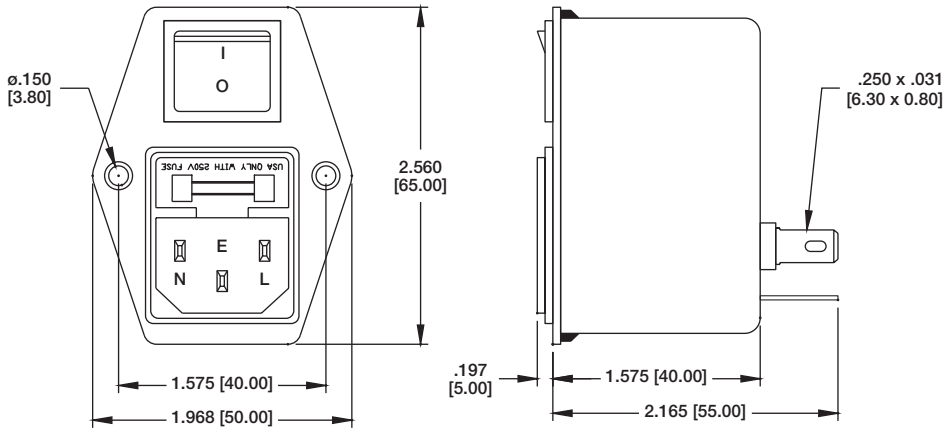


PLF-6DZ2



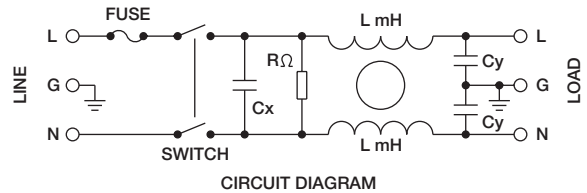
PLF-10DZ2



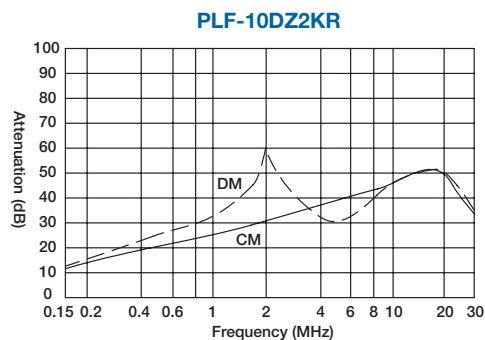
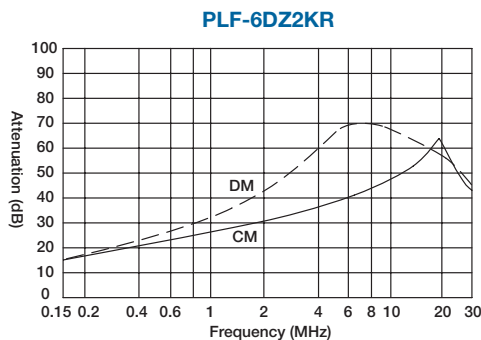
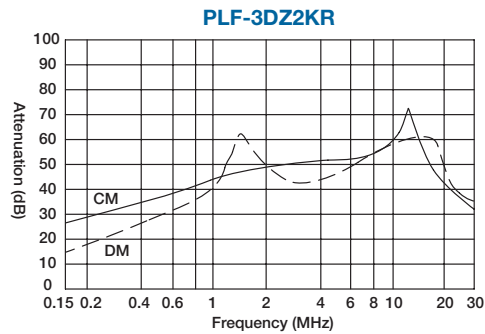
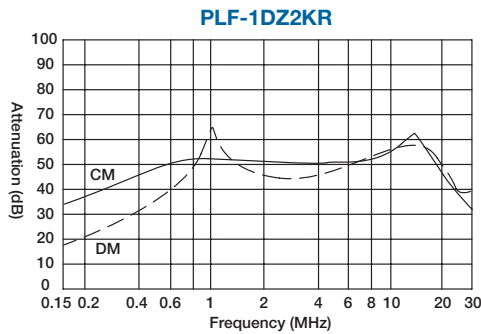


PLF-6DZ2KR

PART NUMBER	RATED VOLTAGE	RATED CURRENT	GROUND CAPACITANCE	LEAKAGE CURRENT
PLF-1DZ2KR	250V AC	1 AMP	2.2 nF	0.5mA MAX.
PLF-3DZ2KR	250V AC	3 AMP	2.2 nF	0.5mA MAX.
PLF-6DZ2KR	250V AC	6 AMP	2.2 nF	0.5mA MAX.
PLF-10DZ2KR	250V AC	10 AMP	2.2 nF	0.5mA MAX.



Insertion Loss in dB (Measured in 50Ω systems, as IEC / cispr No. 17)



PCI EXPRESS, MINI PCI EXPRESS & MINI PCI 1.00mm & 0.8mm CARD EDGE CONNECTOR PCIE SERIES

INTRODUCTION:

Adam Tech's wide range of PCI Express, Mini PCI Express & Mini PCI connectors provide a low cost, highly scalable, general-purpose serial I/O interconnect that provides a unifying standard for a number of I/O solutions within one platform. They are typically used in high-speed serial link technology applications similar to that found in Gigabit Ethernet, Serial ATA (SATA), and Serial-Attached SCSI (SAS). The 36P version supports a single PCI express lane and can be used to replace standard PCI connectors. Our higher bandwidth 4 & 8 lane versions are ideal to use in many server applications.

FEATURES:

- Durable Long Life cycle contacts
- High Pressure Contacts for Low Level Circuits
- Hot plug and hot swap enabled
- Rated to run at up to 2.5Gbps
- Supports 2.5Gbps data transfer and scalable for future bandwidth increases.
- Available in x1, x4, x8, and x16 lane configurations
- Coexists with standard PCI

MATING PC BOARDS:

All printed circuit boards with a thickness of .062" to .072"

SPECIFICATIONS:

Material:

Standard insulator: PPS, 30% glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
 Insulator Color: Dark Brown (Black optional)
 Contacts: Phosphor Bronze

Contact Plating:

Gold over Nickel underplate on contact area, tin over copper underplate on tails.

Electrical:

Operating voltage: 125V AC max.
 Current rating: 3 Amps max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 1000 MΩ min.
 Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 7 oz max.
 Withdrawal force: 0.9 oz min

Temperature Rating:

Operating temperature: -55°C to +105°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

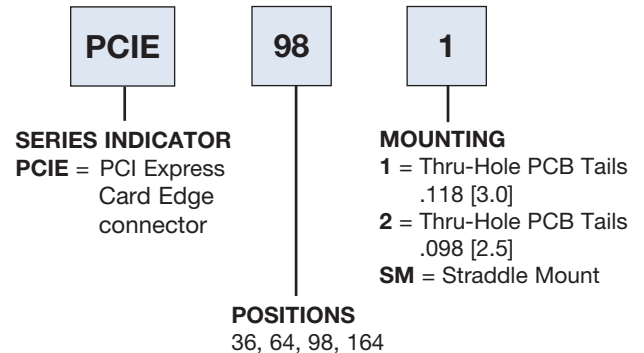
APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

**HI-TEMP
INSULATOR
AVAILABLE**



ORDERING INFORMATION PCI EXPRESS



ORDERING INFORMATION MINI PCI EXPRESS

See pg. 152 for Available Types

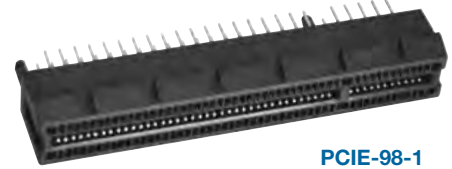
MINI PCI

See pg. 153 for Available Types

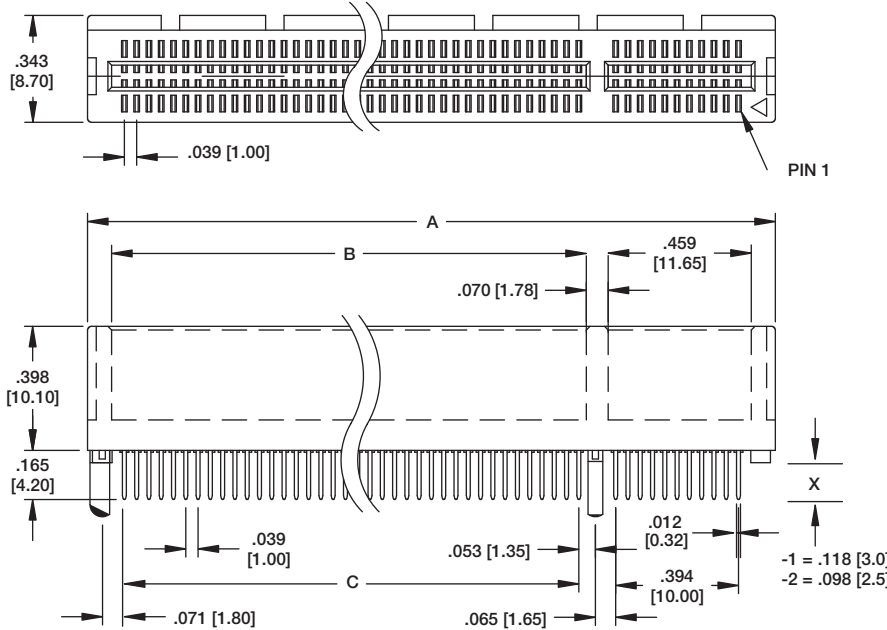
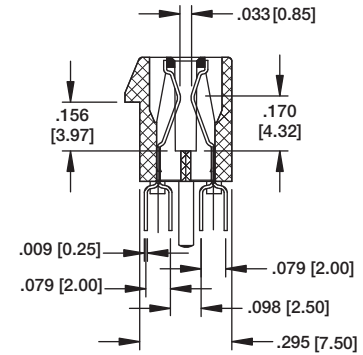
OPTIONS:

Add designator(s) to end of part number
30 = 30 μin gold plating in contact area
WT = White color insulation
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

PCI EXPRESS THRU HOLE PCB MOUNT



PCIE-98-1



PART NO. & POSITIONS	DIMENSIONS			
	A	B	C	D
PCIE-36-1	.984 [25.00]	.301 [7.65]	.236 [6.00]	.321 [8.15]
PCIE-64-1	1.535 [39.00]	.852 [21.65]	.787 [20.00]	.872 [22.15]
PCIE-98-1	2.205 [56.00]	1.522 [38.65]	1.457 [37.00]	1.541 [39.15]
PCIE-164-1	3.504 [89.00]	2.821 [71.65]	2.756 [70.00]	2.840 [72.15]

* Available in Straddle Mount

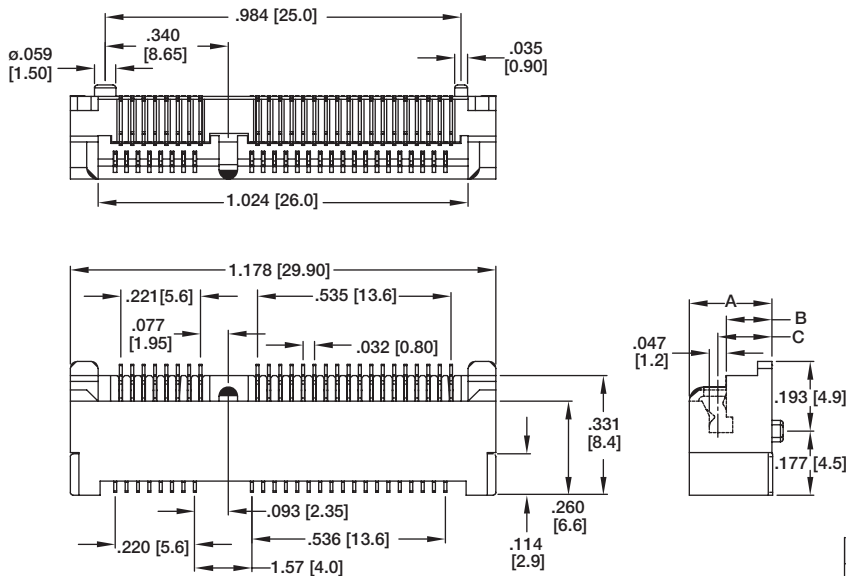
MINI PCI EXPRESS SURFACE MOUNT



MPE-52-R-SMT-3.8

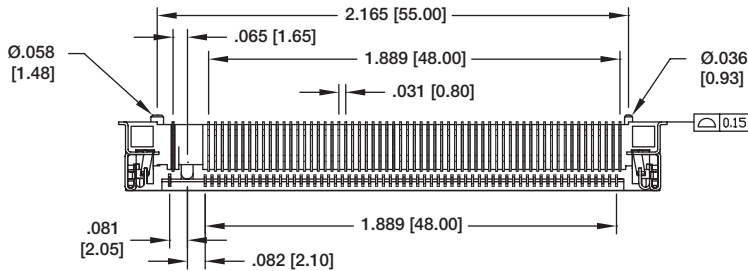


MPE-52-R-SMT-9.0

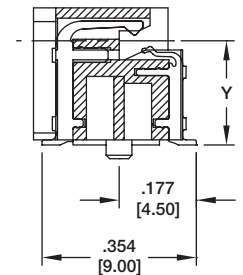
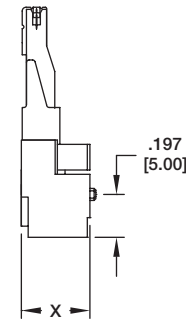
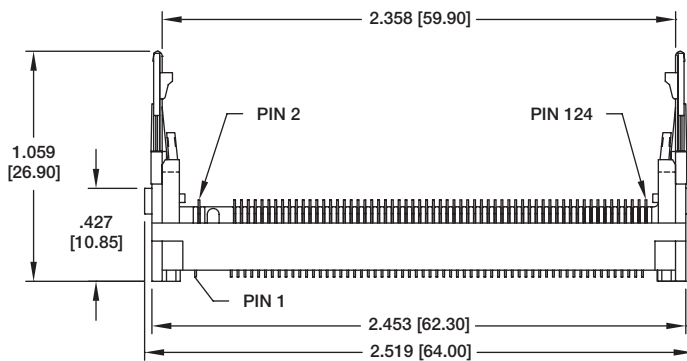


PART NUMBER	DIM A	DIM B	DIM C
MPE-52-R-SMT-5.2-TR	5.20	2.80	3.20
MPE-52-R-SMT-5.6-TR	5.60	3.20	3.80
MPE-52-R-SMT-6.8-TR	6.80	4.40	4.90
MPE-52-R-SMT-8.0-TR	8.00	5.60	6.10
MPE-52-R-SMT-9.2-TR	9.20	6.80	7.30

MINI PCI SURFACE MOUNT



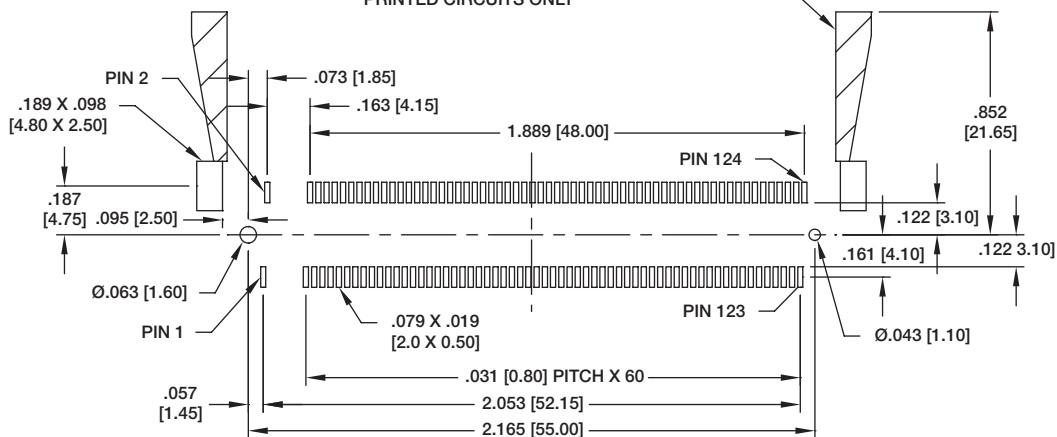
MPC1-124-2-SMT



STANDOFF HEIGHT

(SEE CHART)

LEVER MOVEMENT AREA
DO NOT MOUNT COMPONENTS IN THIS AREA
PRINTED CIRCUITS ONLY



Recommended PCB Layout

PART NO	DIMENSIONS	
	X	Y
MPC1-124-2-SMT	.362 [9.20]	.287 [7.30]

INTRODUCTION:

Adam Tech CE Series Card Edge Connectors are precision engineered PCB mount connectors developed to mate with the plated fingers of a printed circuit daughter board. Their bifurcated, cantilever contacts are set in a dual readout configuration and they offer a reliable connection for a wide range of PCB thicknesses. Adam Tech's sturdy solder tails with tapers allow easy insertion and rugged durability.

FEATURES:

.100" x .200" centerlines
Selectively gold plated contacts
Wide selection of positions
Compatible with a wide range of PCB thicknesses

MATING PC BOARDS:

All printed circuit boards with a thickness of .055" to .075"

SPECIFICATIONS:

Material:

Standard insulator: PBT, 30% glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

Contact Plating:

Gold over Nickel underplate on contact area, tin over copper underplate on tails.

Electrical:

Operating voltage: 250V AC max.
Current rating: 3 Amps max.
Contact resistance: 30 mΩ max. initial
Insulation resistance: 3000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 10 oz max.
Withdrawal force: 3 oz min

Temperature Rating:

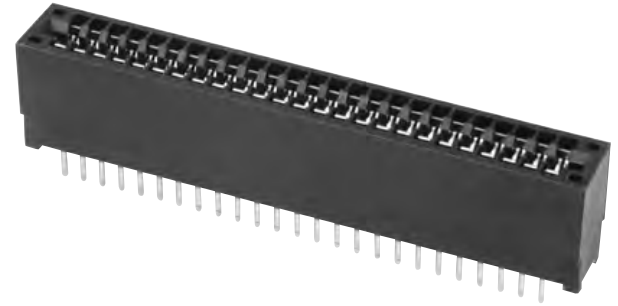
Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

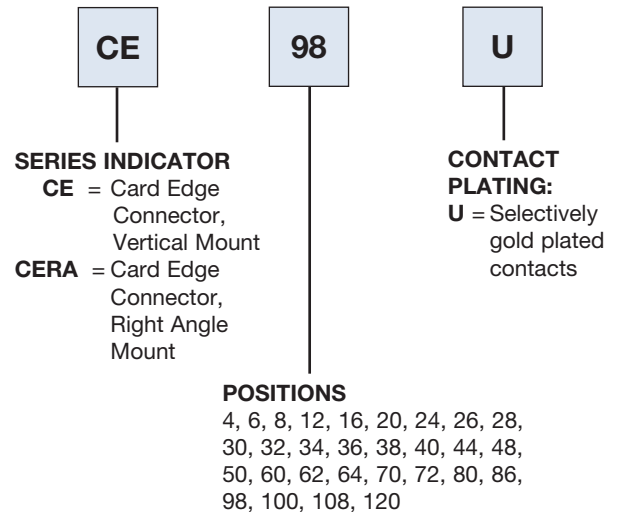
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



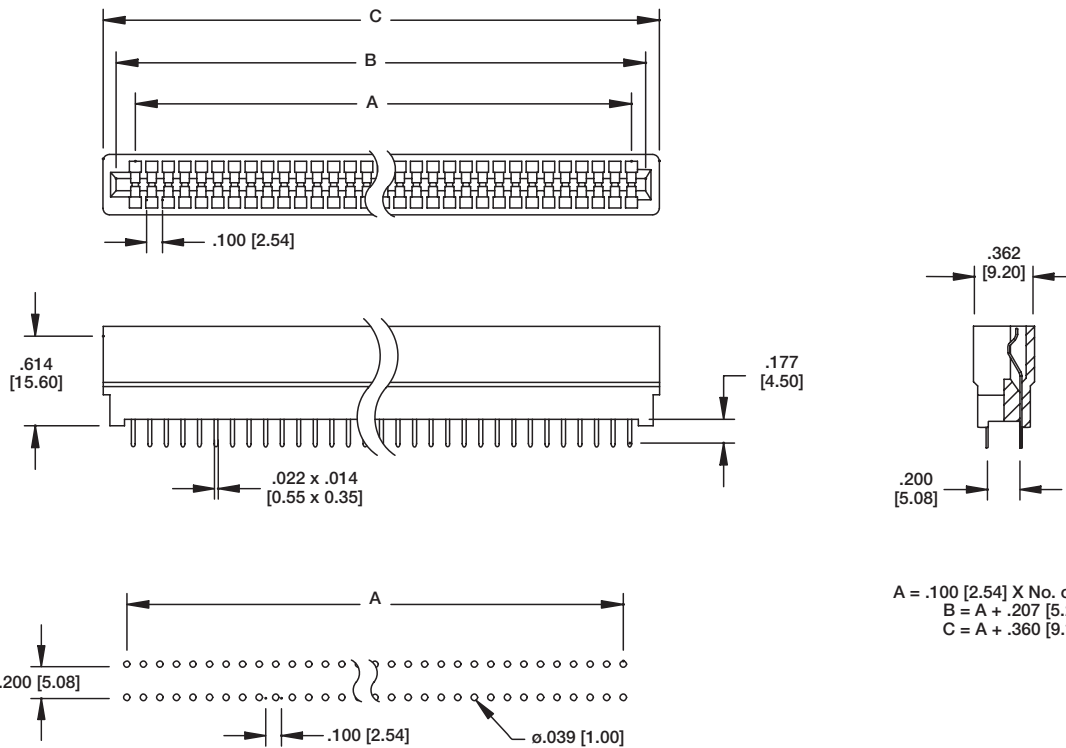
ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number
30 = 30 μin gold plating in contact area
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C
BR = Board retention tails

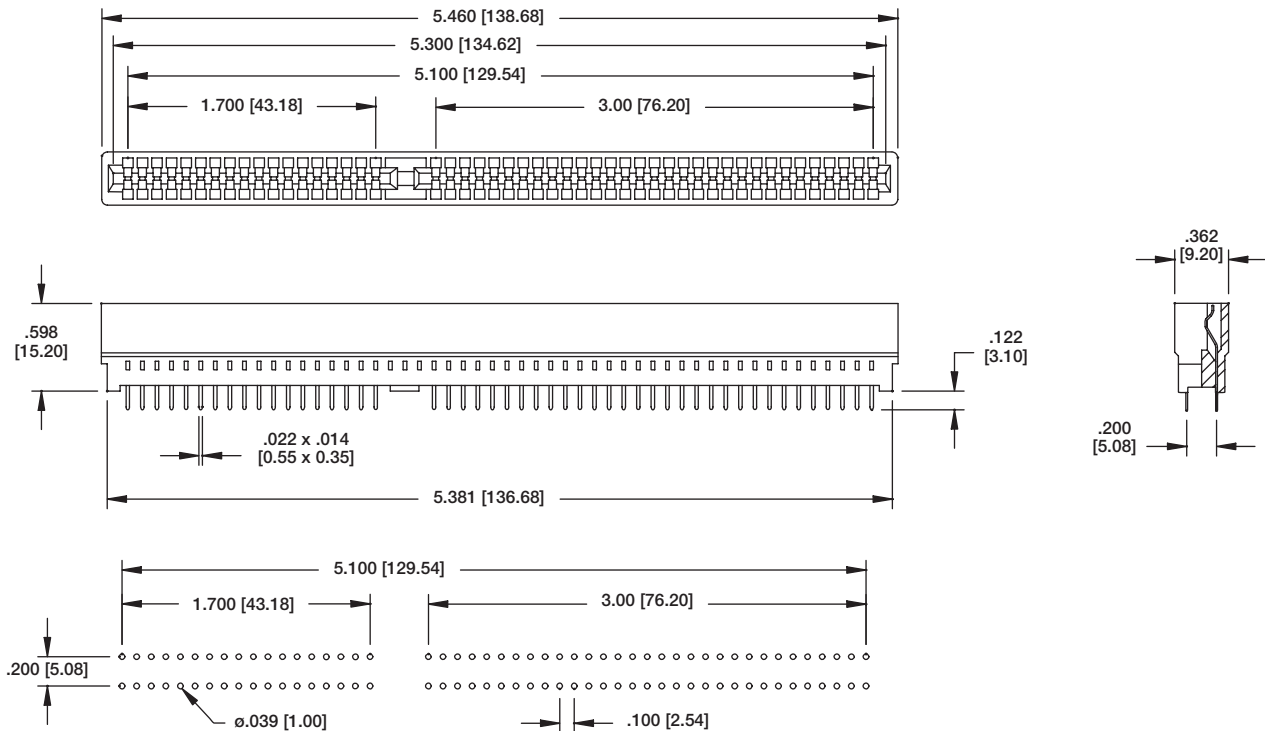
18P-100P



$A = .100 [2.54] \times \text{No. of spaces}$
 $B = A + .207 [5.28]$
 $C = A + .360 [9.14]$

Recommended PCB Layout

98P



Recommended PCB Layout

INTRODUCTION:

Adam Tech HMCA & HDCE Series Card Edge Connectors include Standard and Express versions designed for PCB's in Peripheral Component Interconnect (PCI) applications. Each is manufactured in multiple row, high density package which is completely compatible to industry standards and has specially engineered contacts which provide a very short electrical path between boards. Adam Tech card edge connectors are designed for high performance with solid board pegs and precision located, selectively gold plated contacts which are ideal in high speed, increased bandwidth applications

FEATURES:

HMCA: PCI and PCI Express Versions
 HDCE: Compatible with PC, XT and AT
 High density compact designs
 Industry standard PCI compatible
 Special contact design reduces electrical path
 Selectively plated contacts
 Open bottom for after solder cleaning

MATING PC BOARDS:

All .050" centerline printed circuit board pads with a thickness of .062" to .072"

SPECIFICATIONS:

Material:

Standard insulator: PPS, 30% glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
 Insulator Color: Dark Brown (White for 120 pos.)
 Contacts: Phosphor Bronze

Contact Plating:

Gold over Nickel underplate on contact area, tin over copper underplate on tails.

Electrical:

Operating voltage: 125V AC max.
 Current rating: 1 Amp max.
 Contact resistance: 30 mΩ max. initial
 Insulation resistance: 1000 MΩ min.
 Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 7 oz max.
 Withdrawal force: 0.9 oz min

Temperature Rating:

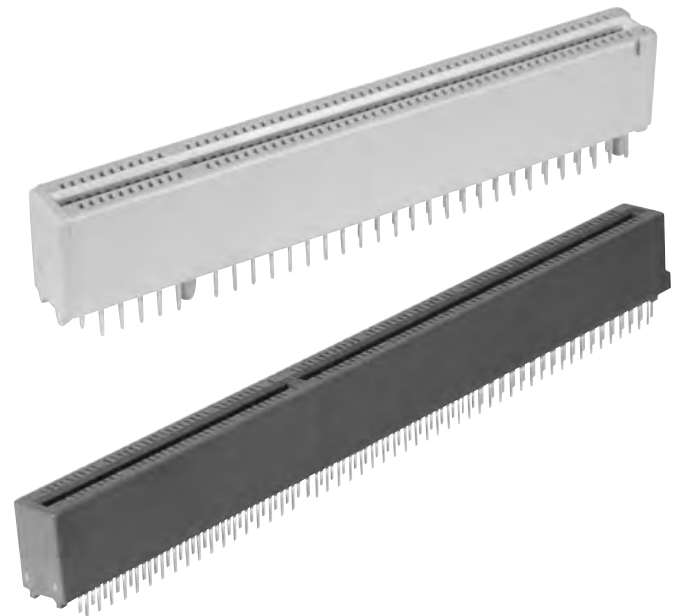
Operating temperature: -55°C to +105°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

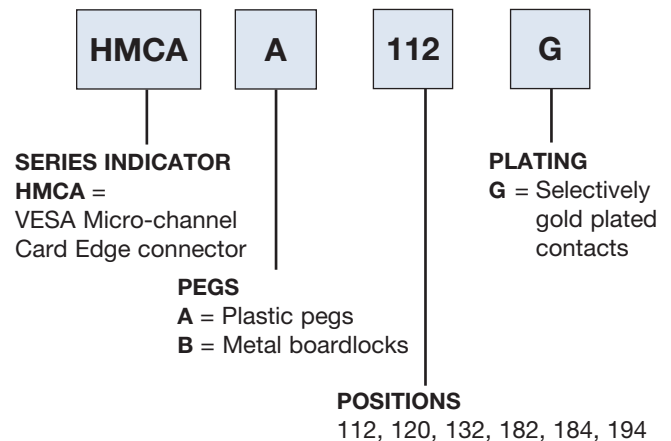
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

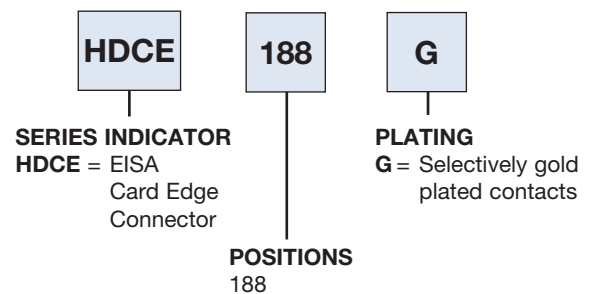
UL Recognized File no. E224053



ORDERING INFORMATION

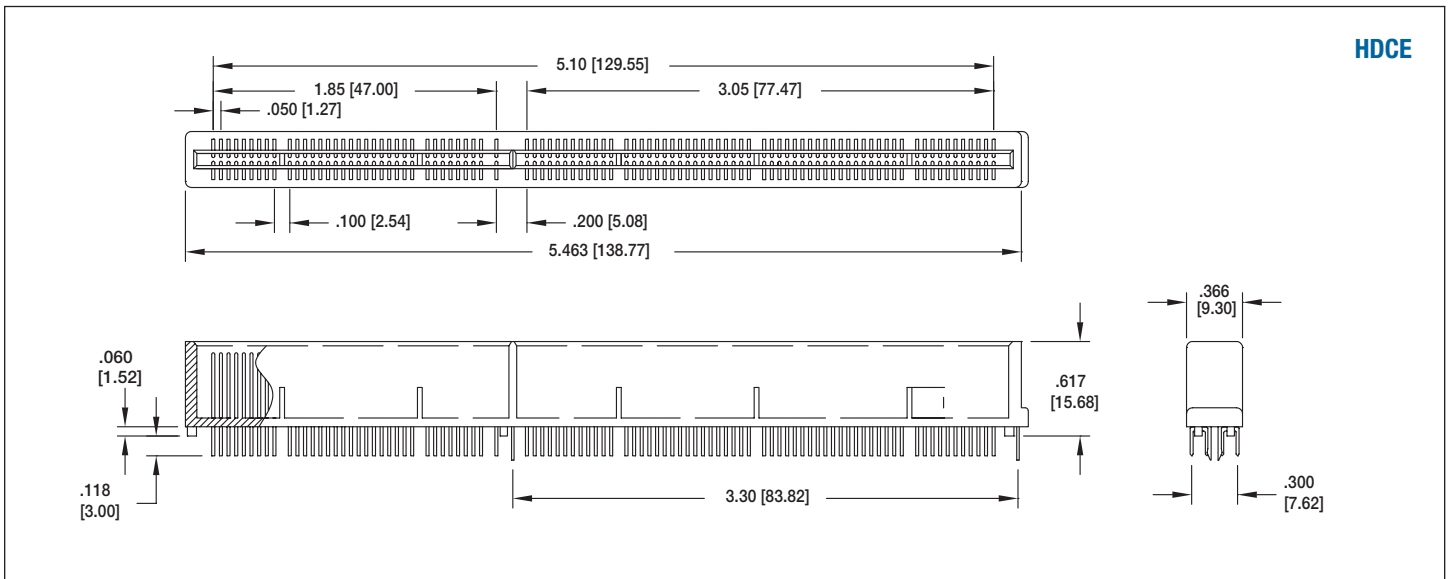
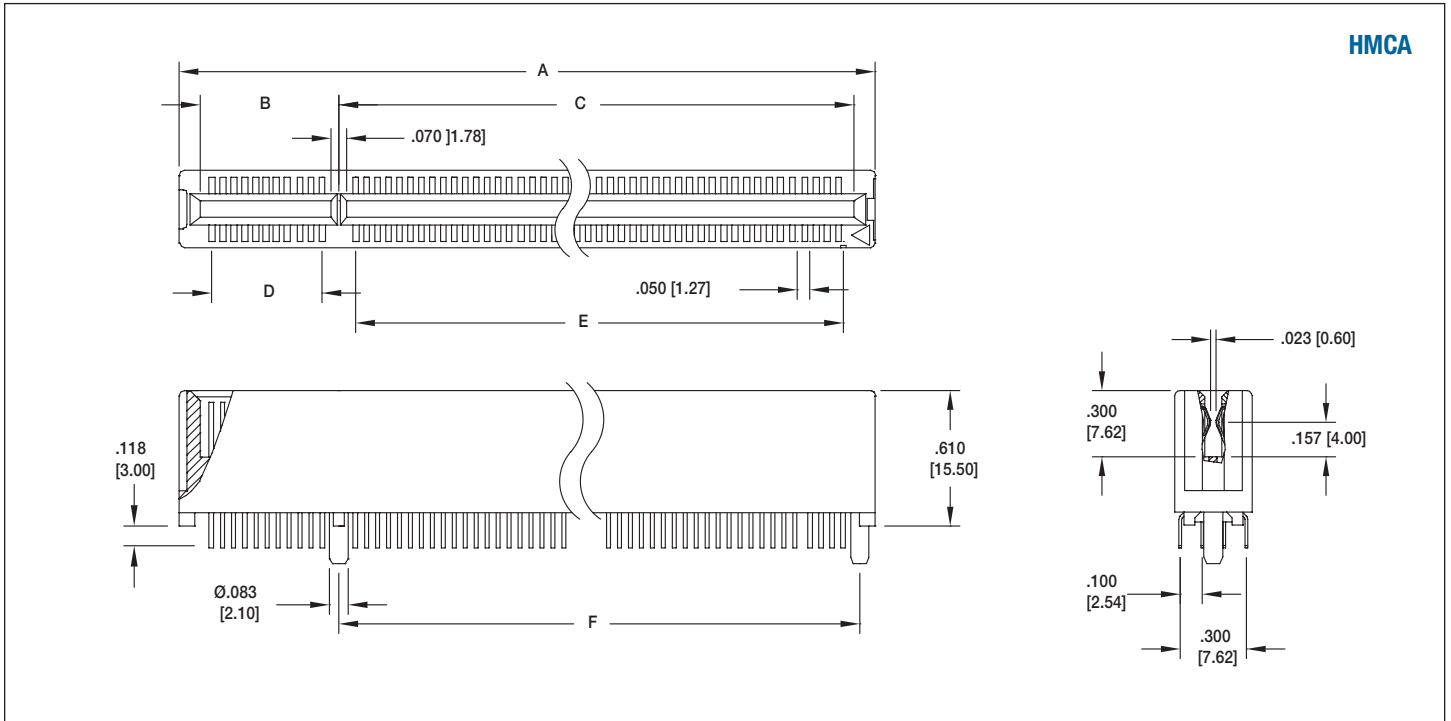


ORDERING INFORMATION



OPTIONS

Add designator(s) to end of part number
30 = 30 μin gold plating in contact area
HT = Hi-Temp insulator for Hi-Temp soldering
 processes up to 260°C



Unit: Inch [mm]

Part No. & Positions	Dimensions					
	A	B	C	D	E	F
HMCA-X-112-G	3.140 [79.76]	0.625 [15.88]	2.325 [59.06]	0.500 [12.70]	2.200 [55.88]	2.232 [56.69]
HMCA-X-120-G	3.340 [84.84]	0.625 [15.88]	2.525 [64.14]	0.500 [12.70]	2.400 [60.96]	2.550 [64.77]
HMCA-X-132-G	3.740 [95.00]	0.625 [15.88]	2.925 [74.30]	1.834 [46.60]	2.200 [55.88]	2.350 [59.69]
HMCA-X-182-G	4.890 [124.21]	2.175 [55.25]	2.525 [64.14]	2.050 [52.07]	2.050 [52.07]	2.550 [64.77]
HMCA-X-194-G	5.290 [134.37]	2.175 [55.25]	2.925 [74.30]	2.050 [52.07]	2.200 [55.88]	2.350 [55.88]

Replace X with A or B

INTRODUCTION:

Adam Tech SMT PLCC Series Sockets are low profile, thin wall sockets designed to convert plastic leaded chips to a thru-hole PCB format on a .100" centerline grid. They conform to JEDEC MS 016 and MS 018 pin count standards. Adam Tech's superior precision stamped contact design provides consistent, high retention contacts for all size chips. Chip exchanges or replacements are easily made with Adam Tech's chip remover part no. PLCC-EXT.

FEATURES:

- Full range of sizes from 20P ~ 100P
- Consistent, uniform high retention contacts
- Compatible with wide range of chip sizes
- No solder wicking design
- Hi Temp PPS insulator
- Open frame design for viewable solder joints

MATING PLASTIC LEADED CHIPS:

All EIA / JEDEC compliant PLCC

SPECIFICATIONS:

Material:

Standard Hi-Temp insulator: PPS, Glass reinforced, rated UL94V-0
Insulator Color: Brown
Contacts: Phosphor Bronze

Contact Plating:

Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 30 mΩ max. initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

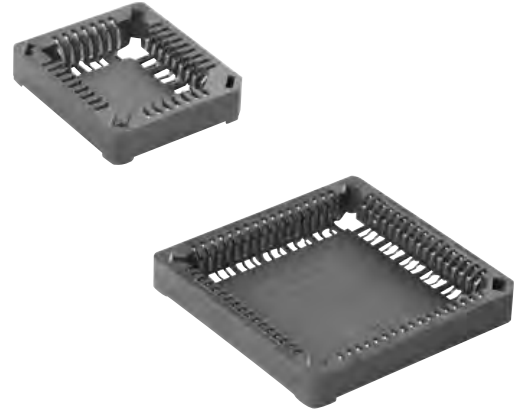
Insertion force: 6.35 oz max.
Withdrawal force: 1.0 oz min
Temperature Rating:
Operating temperature: -55°C to +105°C
Soldering process temperature: 260°C

PACKAGING:

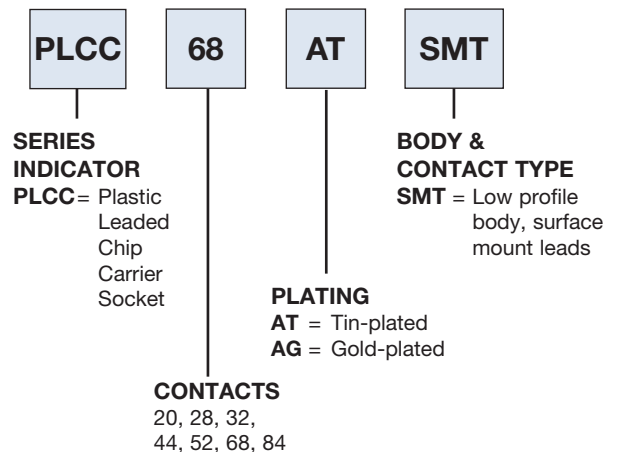
Anti-ESD plastic tubes

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION



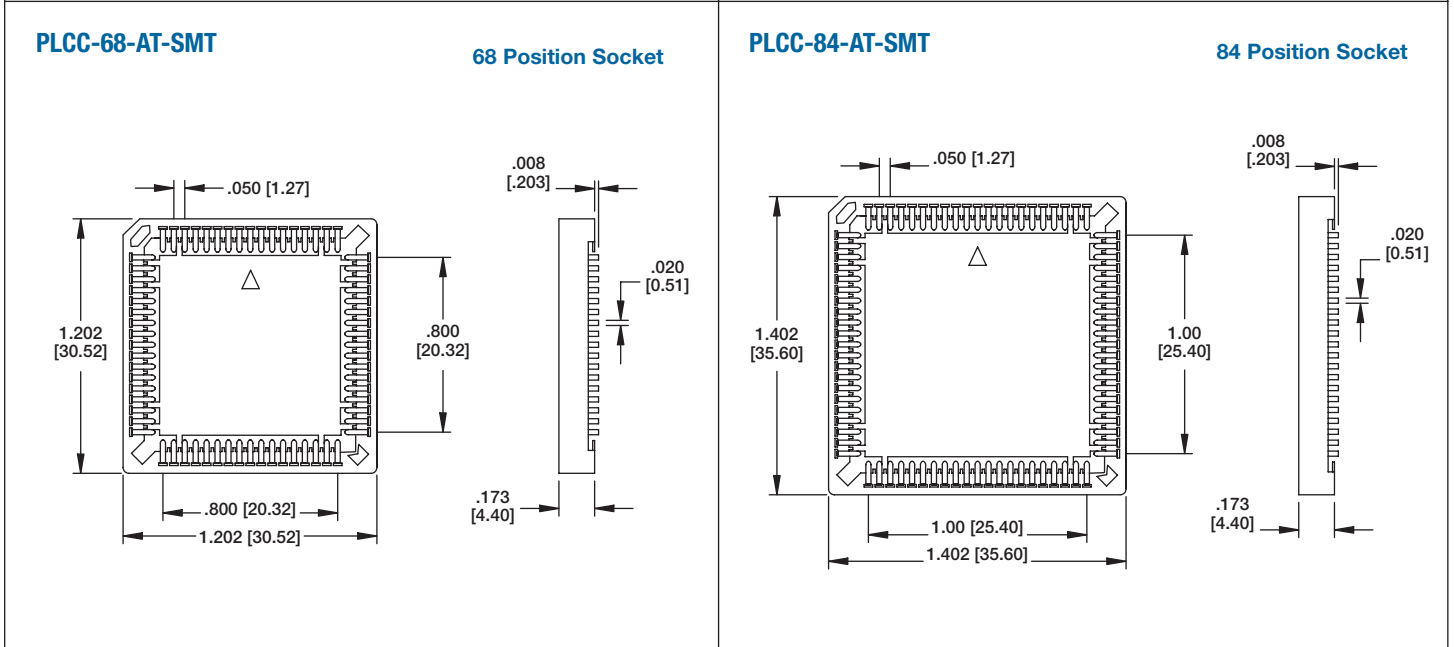
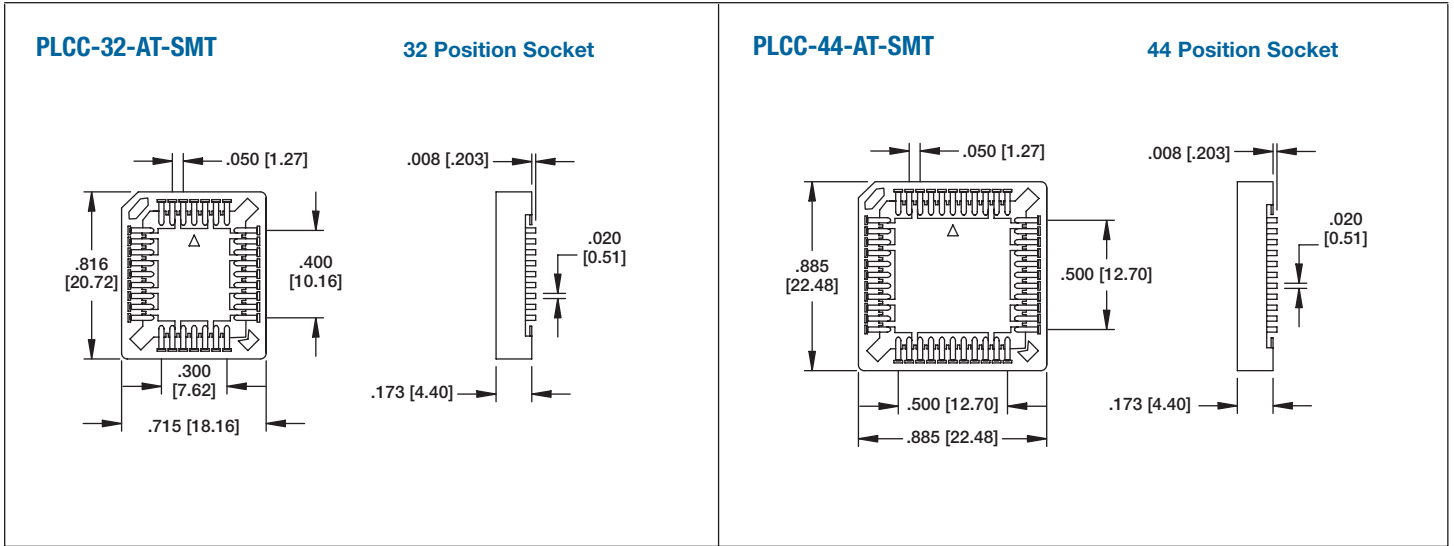
OPTIONS:

Add designator(s) to end of part number

P = With polarizing pegs

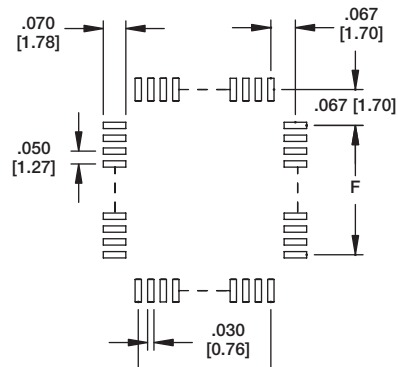
TR = Tape and reel packaging





Recommended Solder Pad Layout

POSITIONS	E	F
20	.200 [5.08]	.200 [5.08]
28	.300 [7.62]	.300 [7.62]
32	.300 [7.62]	.400 [10.16]
44	.500 [12.70]	.500 [12.70]
52	.600 [15.24]	.600 [15.24]
68	.800 [20.32]	.800 [20.32]



INTRODUCTION:

Adam Tech PLCC Series Sockets are designed to convert plastic leaded chips to a thru-hole PCB format on a .100" centerline grid. They conform to JEDEC MS 016 and MS 018 pin count standards. Adam Tech's superior precision stamped contact design provides consistent, high retention contacts for all size chips. Chip exchanges or replacements are easily made with Adam Tech's chip remover part no. PLCC-EXT.

FEATURES:

- Full range of sizes from 20P ~ 100P
- Consistent, uniform high retention contacts
- Compatible with wide range of chip sizes
- No solder wicking design
- Hi Temp PPS insulator version available

MATING PLASTIC LEADED CHIPS:

All EIA / JEDEC plastic leaded chips

SPECIFICATIONS:

Material:

Standard Insulator: PBT, Glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: PPS
Insulator Color: Black (Brown for PPS)
Contacts: Phosphor Bronze

Contact Plating:

Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 30 mΩ max. initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 6.35 oz max.
Withdrawal force: 1.0 oz min

Temperature Rating:

Operating temperature: -20°C to +85°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

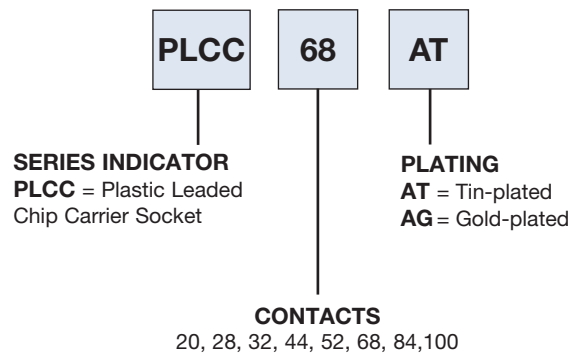
Anti-ESD plastic tubes

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



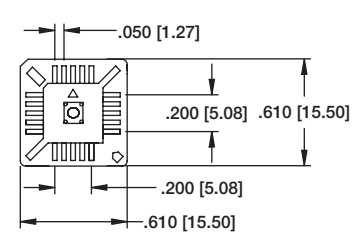
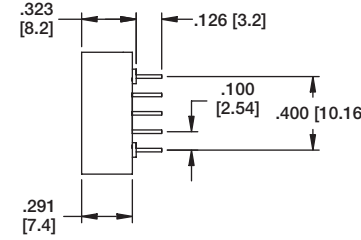
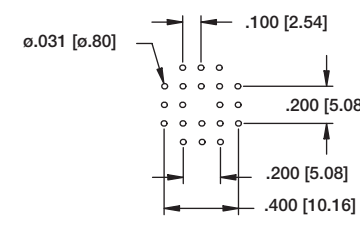
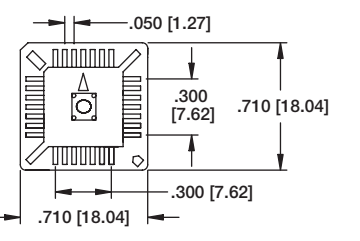
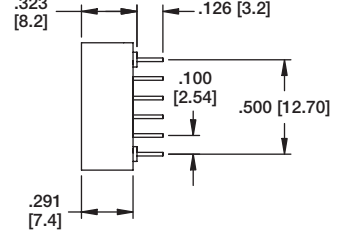
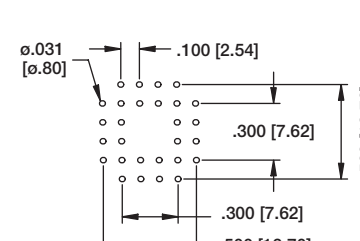
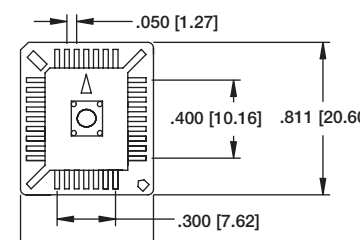
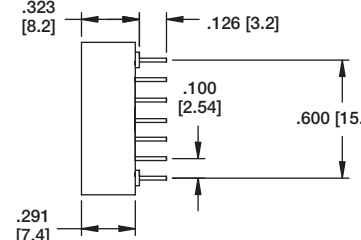
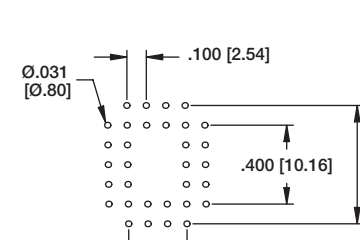
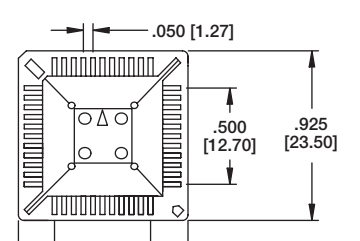
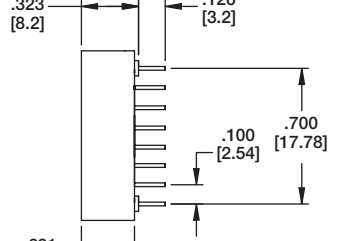
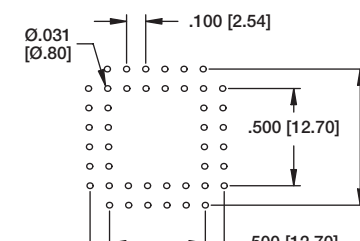
ORDERING INFORMATION



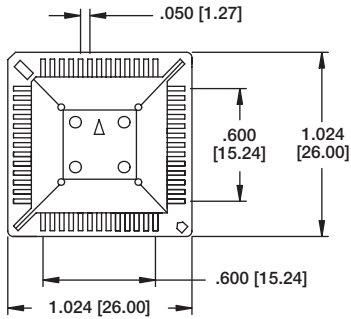
OPTIONS:

Add designator(s) to end of part number

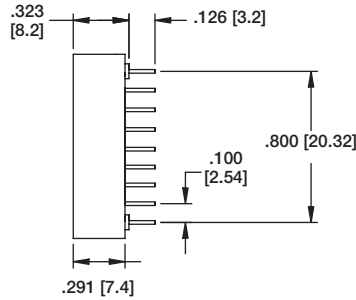
HT = Hi-Temp Polyphenylene Sulfide (PPS) Insulator
Material for hi-temp soldering process up to 260°C

<p>PLCC-20-AT</p> 	<p>20 Position Socket</p> 	<p>20 Position Socket</p>  <p>Recommended PCB Layout</p>
<p>PLCC-28-AT</p> 	<p>28 Position Socket</p> 	<p>28 Position Socket</p>  <p>Recommended PCB Layout</p>
<p>PLCC-32-AT</p> 	<p>32 Position Socket</p> 	<p>32 Position Socket</p>  <p>Recommended PCB Layout</p>
<p>PLCC-44-AT</p> 	<p>44 Position Socket</p> 	<p>44 Position Socket</p>  <p>Recommended PCB Layout</p>

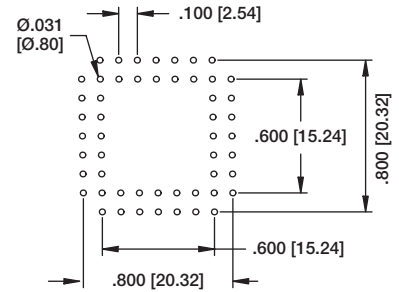
PLCC-52-AT



52 Position Socket

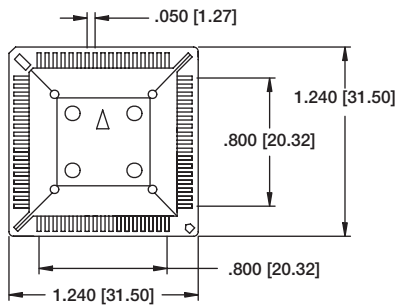


52 Position Socket

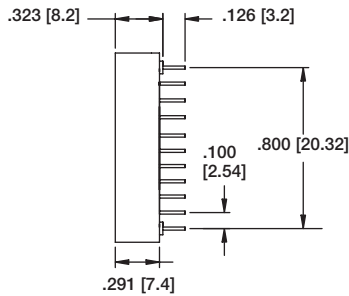


Recommended PCB Layout

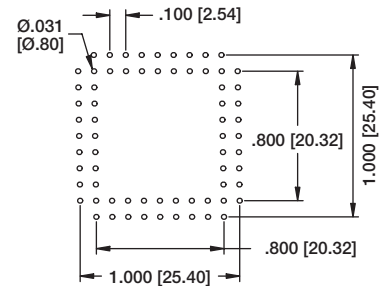
PLCC-68-AT



68 Position Socket

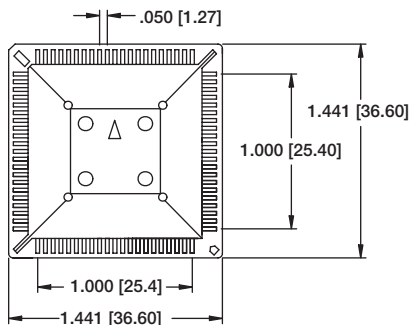


68 Position Socket

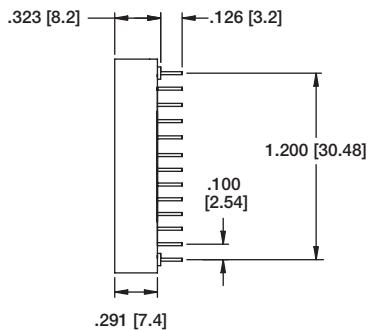


Recommended PCB Layout

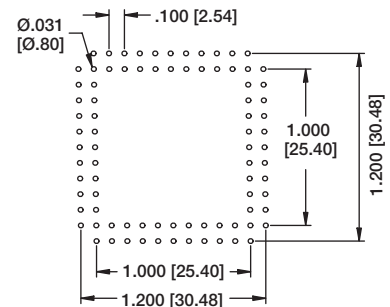
PLCC-84-AT



84 Position Socket



84 Position Socket



Recommended PCB Layout

INTRODUCTION:

Adam Tech ICS Series IC Sockets are a low profile design available in single or dual row on .100" centerline pin spacing with .300" or .600" row spacing. Our ISD Series are fine pitched sockets on .070" centerlines with .300" or .600" row spacing. All Adam Tech sockets are manufactured with our exclusive single beam dual wipe contact design which produces a high pressure wiping action for superior connectivity. In addition to an internal contact stop which prevents over stressing of the contact, each has a wide lead in to eliminate mis-mating and a closed bottom anti-solder wicking design.

FEATURES:

- High Pressure Contacts
- Single Beam, Dual Wipe Contacts
- Anti-Solder Wicking design
- Machine Insertable
- Single or Dual Row
- Low Profile

MATING COMPONENTS:

All industry standard components with SIP or DIP leads

SPECIFICATIONS:

Material:

Standard insulator: PBT, Glass reinforced, rated UL94V-0
 Insulator Color: Black
 Contacts: Phosphor Bronze

Contact Plating:

Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
 Current rating: 1 Amp max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 11.5 oz max with .024" X .006: leads
 Withdrawal force: 0.85 oz min with .024" X .006" leads

Temperature Rating:

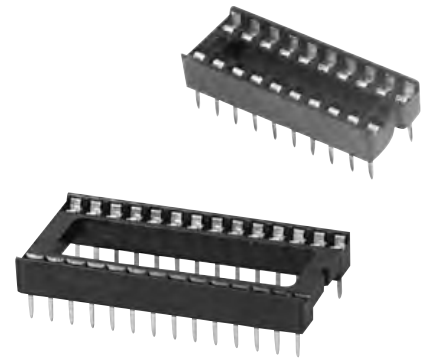
Operating temperature: -55°C to +85°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

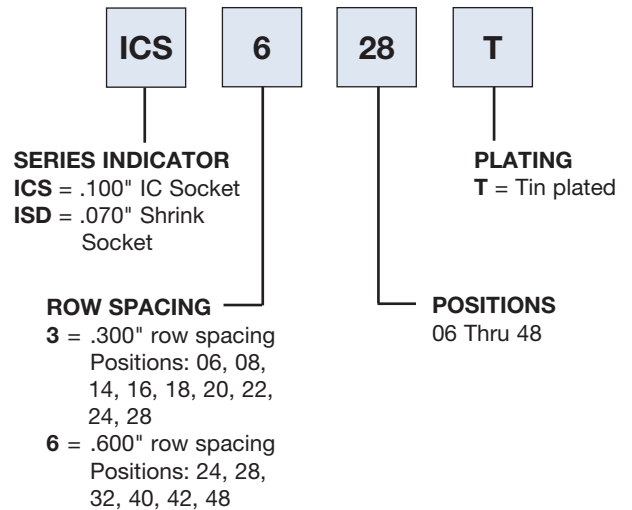
Anti-ESD plastic tubes

SAFETY AGENCY APPROVALS:

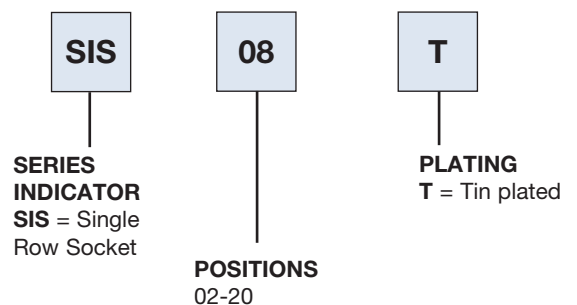
UL Recognized File no. E224053



**ORDERING INFORMATION
IC SOCKETS**



**ORDERING INFORMATION
SINGLE ROW SOCKETS**



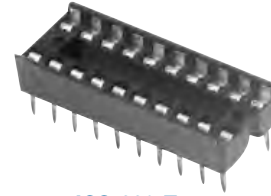
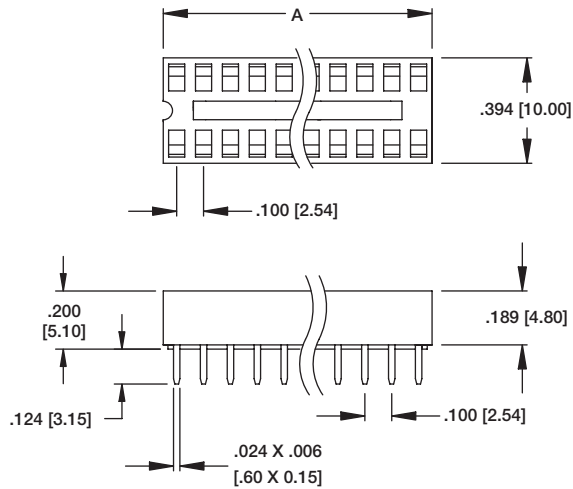
OPTIONS:

Add designator(s) to end of part number
OF = Open Frame without center bar

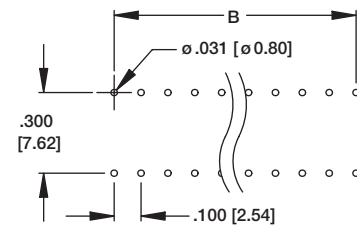
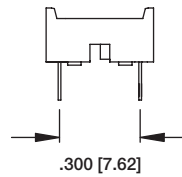
ICS SERIES

.300" ROW CENTERLINE

POSITIONS: 6, 8, 14, 16, 18, 20, 24, 26 & 28



ICS-320-T



Recommended PCB Layout

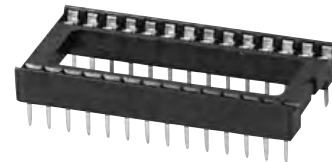
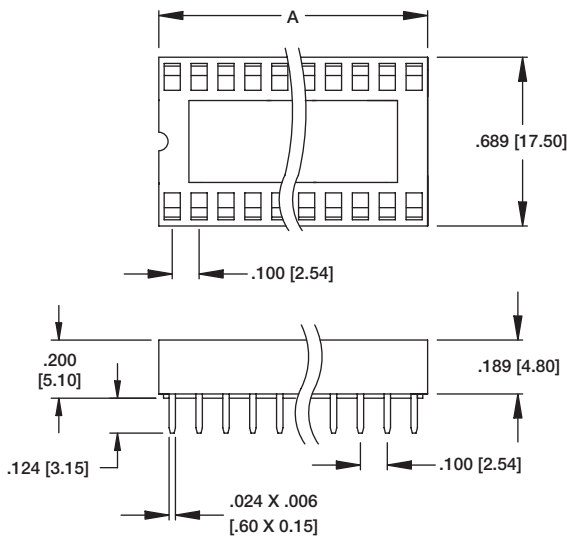
24P- 32P produced with center support bar.

A = .100 [2.54] X No. of Positions Per Row
B = .100 [2.54] X No. of Spaces Per Row

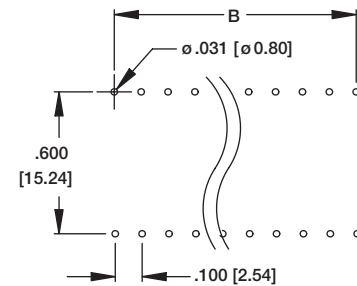
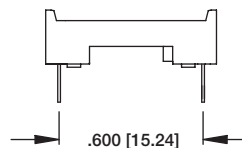
ICS SERIES

.600" ROW CENTERLINE

POSITIONS: 20, 24, 28, 32, 40 & 48



ICS-628-T

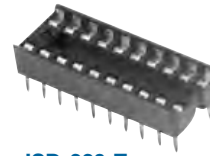
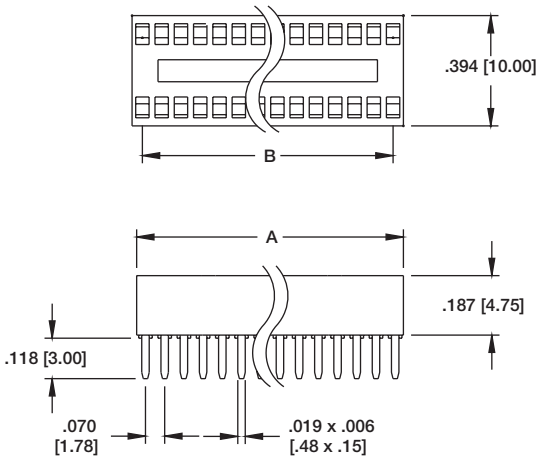


Recommended PCB Layout

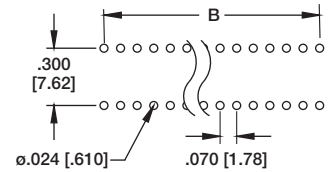
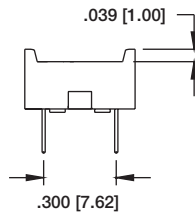
A = .100 [2.54] X No. of Positions Per Row
B = .100 [2.54] X No. of Spaces Per Row

ISD SERIES

**.300" ROW CENTERLINE
SHRINK DIP SOCKETS
POSITIONS: 24, 28, 30**



ISD-320-T

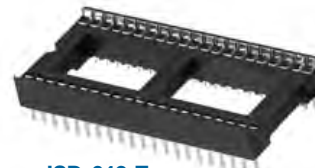
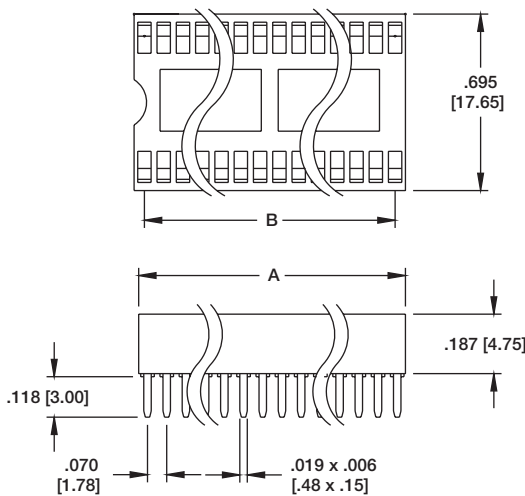


A = $.070$ [1.78] X No. of Positions Per Row
B = $.070$ [1.78] X No. of Spaces

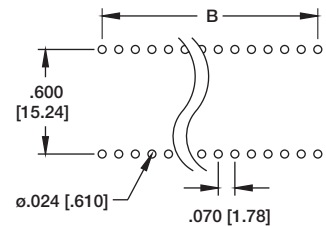
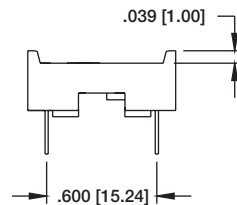
Recommended PCB Layout

ISD SERIES

**.600" ROW CENTERLINE
SHRINK DIP SOCKETS
POSITIONS: 40, 42**



ISD-642-T

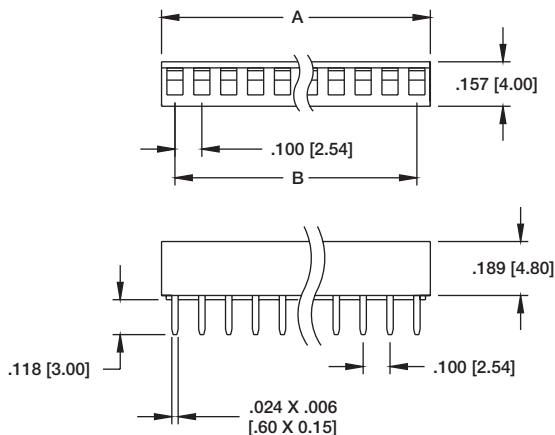


A = $.070$ [1.78] X No. of Positions Per Row
B = $.070$ [1.78] X No. of Spaces

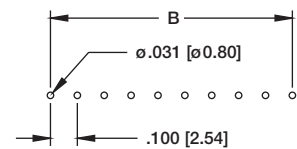
Recommended PCB Layout

SIS SERIES

**.100" SINGLE ROW
POSITIONS: 2P-20P**



SIS-12-T



A = $.100$ [2.54] X No. of Positions
B = $.100$ [2.54] X No. of Spaces

Recommended PCB Layout

INTRODUCTION:

Adam Tech ICM Series Machine Pin Sockets and Terminal Strips offer a full range of exceptional quality, high reliability DIP and SIP package Sockets and Terminal Strips. Our sockets feature solid, precision turned sleeves with a closed bottom design to eliminate flux intrusion and solder wicking during soldering. Adam Tech's stamped spring copper insert provides an excellent connection and allows repeated insertion and withdrawals. Plating options include choice of gold, tin or selective gold plating. Our insulators are molded of UL94V-0 thermoplastic and both Sockets and Terminal Strips are XY stackable.

FEATURES:

- High Pressure Contacts
- Precision Stamped Internal Spring Contact
- Anti-Solder Wicking design
- Machine Insertable
- Single or Dual Row
- Low Profile

MATING COMPONENTS:

Any industry standard components with SIP or DIP leads

SPECIFICATIONS:

Material:

Standard insulator: PBT, Glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
 Insulator Color: Black
 Contacts: Phosphor Bronze

Contact Plating:

Gold over Nickel underplate and Tin over copper underplate

Electrical:

Operating voltage: 250V AC max.
 Current rating: 1 Amp max.
 Contact resistance: 30 mΩ max. initial
 Insulation resistance: 1000 MΩ min.
 Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 400 grams initial max with .025 dia. leads
 Withdrawal force: 90 grams initial min with .025 dia. leads

Temperature Rating:

Operating temperature: -55°C to +85°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C



PACKAGING:

ANTI-ESD PLASTIC TUBES

Approvals and Certifications:
 UL Recognized File no. E224053

OPTIONS: (MCT series on pg. 191)

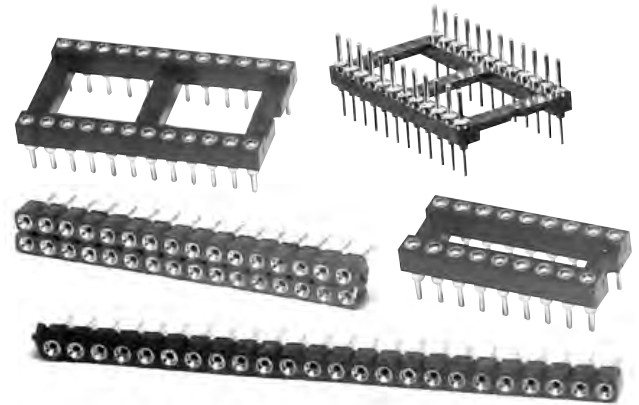
Add designator(s) to end of part number

SMT = Surface mount leads Dual Row

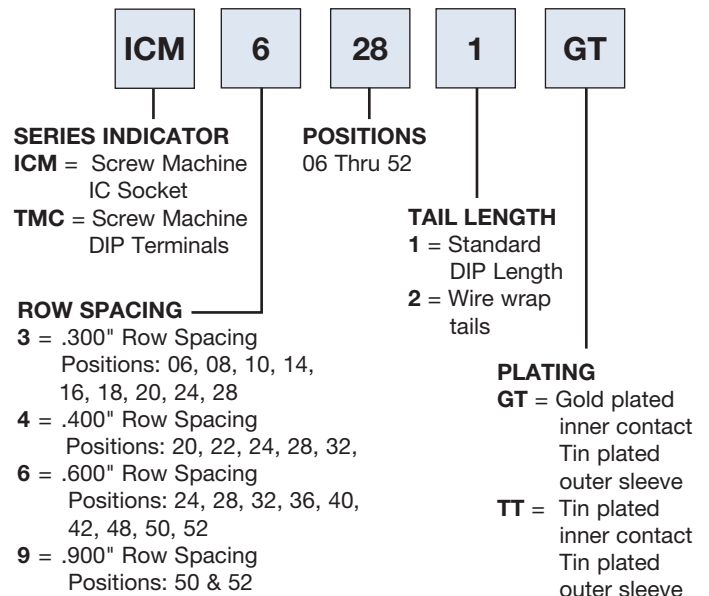
SMT-A = Surface mount leads Type A

SMT-B = Surface mount leads Type B

HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

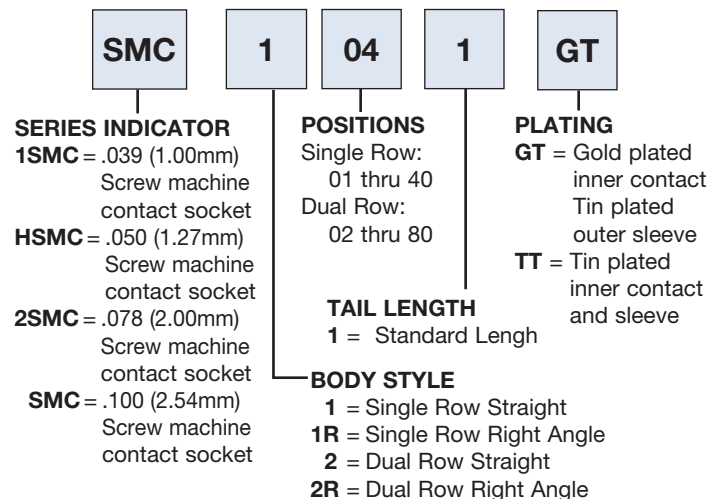


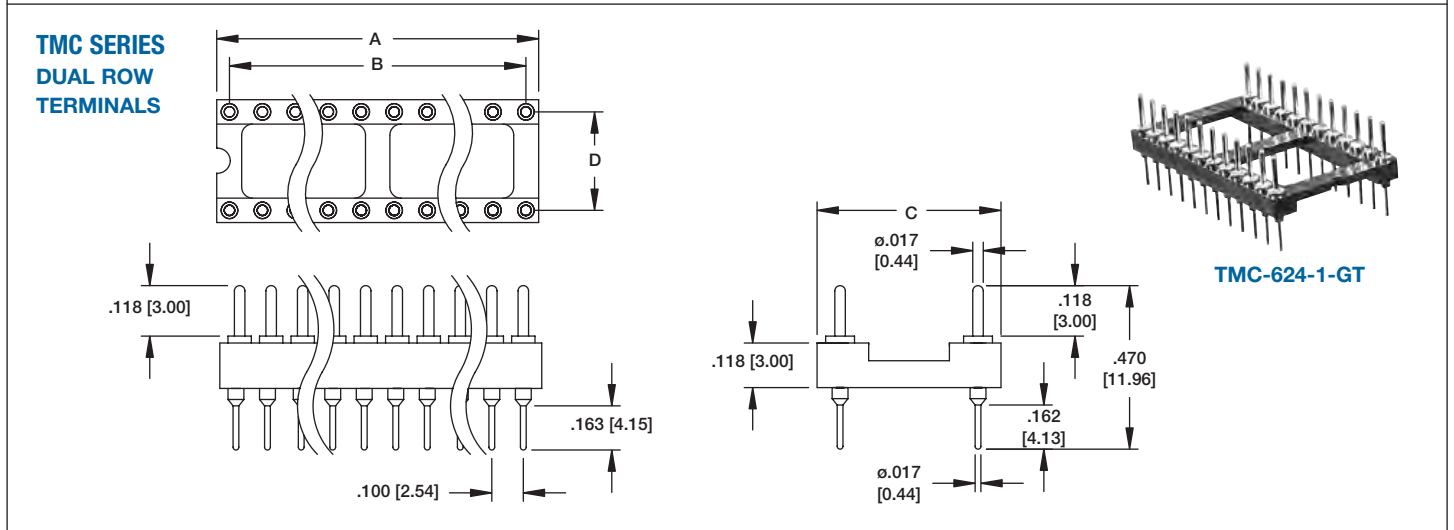
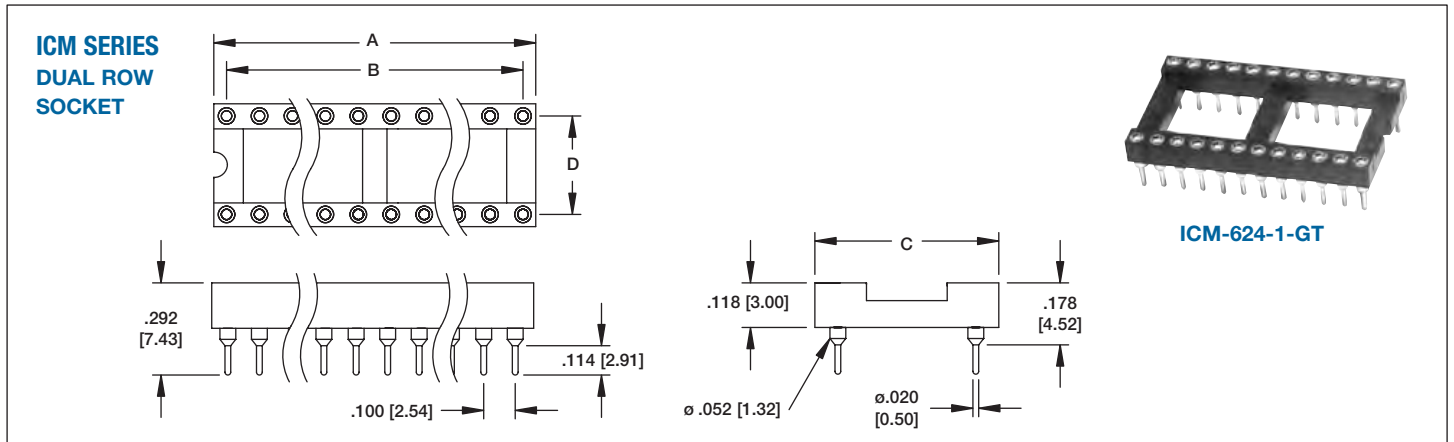
ORDERING INFORMATION OPEN FRAME SCREW MACHINE SOCKETS & TERMINALS



SEE PG. 169

ORDERING INFORMATION SCREW MACHINE SOCKETS





Drawings Pg.168

ORDERING INFORMATION SCREW MACHINE TERMINAL STRIPS

MCT **1** **04** **1** **GT**

SERIES INDICATOR
1MCT = .039 (1.00mm) Screw machine contact terminal strip
HMCT = .050 (1.27mm) Screw machine contact terminal strip
2MCT = .078 (2.00mm) Screw machine contact terminal strip
MCT = .100 (2.54mm) Screw machine contact terminal strip

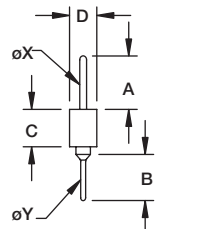

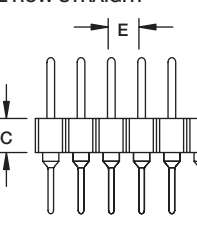
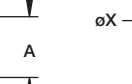
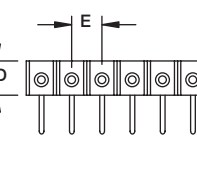

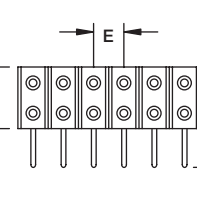

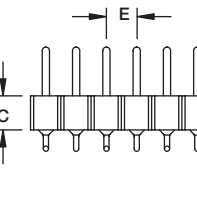

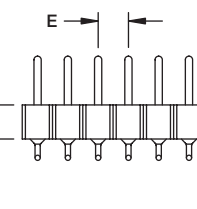
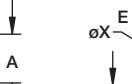
POSITIONS
 Single Row: 01 thru 40
 Dual Row: 02 thru 80

PLATING
GT = Gold Internal Contact, Tin Sleeve
TT = Tin Overall

TAIL LENGTH
1 = Standard Length
2 = Special Length, customer specified as tail length/total length

BODY STYLE
1 = Single Row Straight
1R = Single Row Right Angle
2 = Dual Row Straight
2R = Dual Row Right Angle

POSITION	ROW SPACING		C	D
	A	B		
6	.300 [7.62]	.200 [5.08]	.400 [10.16]	.300 [7.62]
8	.400 [10.16]	.300 [7.62]		
10	.500 [12.70]	.400 [10.16]		
14	.700 [17.78]	.600 [15.24]		
16	.800 [20.32]	.700 [17.78]		
18	.900 [22.86]	.800 [20.32]		
20	1.00 [25.40]	.900 [22.86]	.500 [12.70]	.400 [10.16]
24	1.20 [30.48]	1.10 [27.94]		
28	1.40 [35.56]	1.30 [33.02]		
20	1.00 [25.40]	.900 [22.86]		
22	1.10 [27.94]	1.00 [25.40]		
24	1.20 [30.48]	1.10 [27.94]		
28	1.40 [35.56]	1.30 [33.02]	.700 [17.78]	.600 [15.24]
32	1.60 [40.64]	1.50 [38.10]		
24	1.20 [30.48]	1.10 [27.94]		
28	1.40 [35.56]	1.30 [33.02]		
32	1.60 [40.64]	1.50 [38.10]		
36	1.80 [45.72]	1.70 [43.18]		
40	2.00 [50.80]	1.90 [48.26]	1.00 [25.40]	.900 [22.86]
42	2.10 [53.34]	1.90 [48.26]		
48	2.40 [60.96]	2.30 [58.42]		
50	2.50 [63.50]	2.40 [60.96]		
52	2.60 [66.04]	2.50 [63.50]		
50	2.50 [63.50]	2.40 [60.96]		
52	2.60 [66.04]	2.50 [63.50]		

CONFIGURATIONS	1MCT Series .039 [1.00] Pitch	HMCT Series .050 [1.27] Pitch	2MCT Series .078 [2.00] Pitch	MCT Series .100 [2.54] Pitch
SINGLE ROW STRAIGHT  	<p>A = .095 [2.43] B = .098 [2.50] C = .047 [1.20] D = .086 [2.20] øX = .015 [0.40] øY = .015 [0.40]</p> <p>POSITIONS: 1 THRU 40</p>	<p>A = .118 [3.00] B = .118 [3.00] C = .086 [2.20] D = .086 [2.20] øX = .017 [0.43] øY = .017 [0.43]</p> <p>POSITIONS: 1 THRU 40</p>	<p>A = .141 [3.60] B = .114 [2.90] C = .110 [2.80] D = .086 [2.20] øX = .018 [0.47] øY = .019 [0.50]</p> <p>POSITIONS: 1 THRU 40</p>	<p>A = .197 [5.00] B = .118 [3.00] C = .118 [3.00] D = .100 [2.54] øX = .030 [0.76] øY = .029 [0.60]</p> <p>POSITIONS: 1 THRU 40</p>
DUAL ROW STRAIGHT  		<p>.050 [1.27] Pitch HMCT-2-XX-1-G</p> <p>A = .118 [3.00] B = .118 [3.00] C = .078 [2.00] D = .128 [3.25] E = .050 [1.27] øX = .017 [0.43] øY = .017 [0.43]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.078 [2.00] Pitch 2MCT-2-XX-1-G</p> <p>A = .141 [3.60] B = .114 [2.90] C = .110 [2.80] D = .165 [4.20] E = .078 [2.00] øX = .018 [0.47] øY = .019 [0.50]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.100 [2.54] Pitch MCT-2-XX-1-G</p> <p>A = .197 [5.00] B = .118 [3.00] C = .118 [3.00] D = .200 [5.08] E = .100 [2.54] øX = .030 [0.76] øY = .023 [0.60]</p> <p>POSITIONS: 2 THRU 80</p>
SINGLE ROW RIGHT ANGLE  		<p>.050 [1.27] Pitch HMCT-1R-XX-1-G</p> <p>A = .118 [3.00] B = .118 [3.00] C = .086 [2.20] D = .086 [2.20] E = .050 [1.27] F = .133 [3.40] øX = .017 [0.43] øY = .017 [0.43]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.078 [2.00] Pitch 2MCT-1R-XX-1-G</p> <p>A = .141 [3.60] B = .126 [3.20] C = .110 [2.80] D = .086 [2.20] E = .078 [2.00] F = .177 [4.50] øX = .018 [0.47] øY = .019 [0.50]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.100 [2.54] Pitch MCT-1R-XX-1-G</p> <p>A = .197 [5.00] B = .126 [3.20] C = .118 [3.00] D = .100 [2.54] E = .100 [2.54] F = .177 [4.50] øX = .030 [0.76] øY = .023 [0.60]</p> <p>POSITIONS: 1 THRU 40</p>
DUAL ROW RIGHT ANGLE  		<p>.050 [1.27] Pitch HMCT-2R-XX-1-G</p> <p>A = .118 [3.00] B = .118 [3.00] C = .082 [2.10] D = .128 [3.25] E = .050 [1.27] F = .122 [3.10] øX = .017 [0.43] øY = .017 [0.43]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.078 [2.00] Pitch 2MCT-2R-XX-1-G</p> <p>A = .141 [3.60] B = .126 [3.20] C = .110 [2.80] D = .165 [4.20] E = .078 [2.00] F = .177 [4.50] øX = .018 [0.47] øY = .019 [0.50]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.100 [2.54] Pitch MCT-2R-XX-1-G</p> <p>A = .197 [5.00] B = .126 [3.20] C = .118 [3.00] D = .200 [5.08] E = .100 [2.54] F = .177 [4.50] øX = .030 [0.76] øY = .023 [0.60]</p> <p>POSITIONS: 2 THRU 80</p>
SINGLE ROW SURFACE MOUNT  		<p>.050 [1.27] Pitch HMCT-1-XX-1-G-SMT</p> <p>A = .118 [3.00] B = .132 [3.35] C = .078 [2.00] D = .086 [2.20] E = .050 [1.27] G = .182 [4.63] øX = .017 [0.43] øY = .017 [0.43]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.078 [2.00] Pitch 2MCT-1-XX-1-G-SMT</p> <p>A = .141 [3.60] B = .189 [4.80] C = .110 [2.80] D = .086 [2.20] E = .078 [2.00] G = .173 [4.40] øX = .016 [0.47] øY = .019 [0.50]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.100 [2.54] Pitch MCT-1-XX-1-G-SMT</p> <p>A = .197 [5.00] B = .189 [4.80] C = .118 [3.00] D = .100 [2.54] E = .100 [2.54] G = .173 [4.40] øX = .030 [0.76] øY = .023 [0.60]</p> <p>POSITIONS: 1 THRU 40</p>
DUAL ROW SURFACE MOUNT  		<p>.050 [1.27] Pitch HMCT-2-XX-1-G-SMT</p> <p>A = .118 [3.00] B = .132 [3.35] C = .078 [2.00] D = .128 [3.25] E = .050 [1.27] G = .232 [5.90] øX = .017 [0.43] øY = .017 [0.43]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.078 [2.00] Pitch 2MCT-2-XX-1-G-SMT</p> <p>A = .141 [3.60] B = .189 [4.80] C = .110 [2.80] D = .165 [4.20] E = .078 [2.00] G = .252 [6.40] øX = .016 [0.47] øY = .019 [0.50]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.100 [2.54] Pitch MCT-2-XX-1-G-SMT</p> <p>A = .197 [5.00] B = .189 [4.80] C = .118 [3.00] D = .200 [5.08] E = .100 [2.54] G = .315 [8.00] øX = .030 [0.76] øY = .023 [0.60]</p> <p>POSITIONS: 2 THRU 80</p>

CONFIGURATIONS	1SMC Series .039 [1.00] Pitch	HSMC Series .050 [1.27] Pitch	2SMC Series .078 [2.00] Pitch	SMC Series .100 [2.54] Pitch
SINGLE ROW STRAIGHT 	<p>A = .039 [1.00] C = .086 [2.20] D = .098 [2.50] E = .197 [5.00] øX = .015 [0.40]</p> <p>POSITIONS: 1 THRU 40</p>	<p>A = .050 [1.27] C = .086 [2.20] D = .161 [4.10] E = .252 [6.40] øX = .018 [0.46]</p> <p>POSITIONS: 1 THRU 40</p>	<p>A = .078 [2.00] C = .086 [2.20] D = .110 [2.80] E = .291 [7.40] øX = .021 [0.53]</p> <p>POSITIONS: 1 THRU 40</p>	<p>A = .100 [2.54] C = .100 [2.54] D = .118 [3.00] E = .292 [7.43] øX = .020 [0.51]</p> <p>POSITIONS: 1 THRU 40</p>
DUAL ROW STRAIGHT 	<p>.050 [1.27] Pitch HSMC-2-XX-1-GT</p> <p>A = .050 [1.27] B = .050 [1.27] C = .128 [3.25] D = .161 [4.10] E = .252 [6.40] øX = .018 [0.46]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.078 [2.00] Pitch 2SMC-2-XX-1-GT</p> <p>A = .078 [2.00] B = .078 [2.00] C = .165 [4.20] D = .110 [2.80] E = .291 [7.40] øX = .021 [0.53]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.100 [2.54] Pitch SMC-2-XX-1-GT</p> <p>A = .100 [2.54] B = .100 [2.54] C = .200 [5.08] D = .118 [3.00] E = .292 [7.43] øX = .020 [0.51]</p> <p>POSITIONS: 2 THRU 80</p>	
SINGLE ROW RIGHT ANGLE 	<p>.050 [1.27] Pitch HSMC-1R-XX-1-GT</p> <p>A = .050 [1.27] C = .086 [2.20] D = .161 [4.10] E = .118 [3.00] F = .208 [5.30] øX = .018 [0.46]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.078 [2.00] Pitch 2SMC-1R-XX-1-GT</p> <p>A = .078 [2.00] C = .086 [2.20] D = .110 [2.80] E = .126 [3.20] F = .220 [5.60] øX = .021 [0.53]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.100 [2.54] Pitch SMC-1R-XX-1-GT</p> <p>A = .100 [2.54] C = .100 [2.54] D = .118 [3.00] E = .126 [3.20] F = .220 [5.60] øX = .024 [0.62]</p> <p>POSITIONS: 1 THRU 40</p>	
DUAL ROW RIGHT ANGLE 	<p>.050 [1.27] Pitch HSMC-2R-XX-1-GT</p> <p>A = .050 [1.27] B = .050 [1.27] C = .128 [3.25] D = .161 [4.10] E = .118 [3.00] F = .208 [5.30] øX = .018 [0.46]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.078 [2.00] Pitch 2SMC-2R-XX-1-GT</p> <p>A = .078 [2.00] B = .078 [2.00] C = .165 [4.20] D = .110 [2.80] E = .126 [3.20] F = .220 [5.60] øX = .021 [0.53]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.100 [2.54] Pitch SMC-2R-XX-1-GT</p> <p>A = .100 [2.54] B = .100 [2.54] C = .200 [5.08] D = .118 [3.00] E = .126 [3.20] F = .220 [5.60] øX = .024 [0.62]</p> <p>POSITIONS: 2 THRU 80</p>	
SINGLE ROW SURFACE MOUNT 	<p>.050 [1.27] Pitch HSMC-1-XX-1-GT-SMT</p> <p>A = .050 [1.27] C = .086 [2.20] D = .161 [4.10] E = .204 [5.20] F = .134 [3.40] øX = .018 [0.46]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.078 [2.00] Pitch 2SMC-1-XX-1-GT-SMT</p> <p>A = .078 [2.00] C = .086 [2.20] D = .110 [2.80] E = .228 [5.80] F = .173 [4.40] øX = .021 [0.53]</p> <p>POSITIONS: 1 THRU 40</p>	<p>.100 [2.54] Pitch SMC-1-XX-1-GT-SMT</p> <p>A = .100 [2.54] C = .100 [2.54] D = .118 [3.00] E = .220 [5.60] F = .182 [4.64] øX = .024 [0.62]</p> <p>POSITIONS: 1 THRU 40</p>	
DUAL ROW SURFACE MOUNT 	<p>.050 [1.27] Pitch HSMC-2-XX-1-GT-SMT</p> <p>A = .050 [1.27] B = .050 [1.27] C = .128 [3.25] D = .161 [4.10] E = .204 [5.20] F = .193 [4.90] øX = .018 [0.46]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.078 [2.00] Pitch 2SMC-2-XX-1-GT-SMT</p> <p>A = .078 [2.00] B = .078 [2.00] C = .165 [4.20] D = .110 [2.80] E = .228 [5.80] F = .252 [6.40] øX = .021 [0.53]</p> <p>POSITIONS: 2 THRU 80</p>	<p>.100 [2.54] Pitch SMC-2-XX-1-GT-SMT</p> <p>A = .100 [2.54] B = .100 [2.54] C = .200 [5.08] D = .118 [3.00] E = .220 [5.60] F = .282 [7.18] øX = .024 [0.62]</p> <p>POSITIONS: 2 THRU 80</p>	

INTRODUCTION:

Adam Tech DIMM (Dual in Line Memory Module) , S.O. DIMM (Small outline DIMM) & DDR (Double Data Rate) sockets are precision designed sockets for add-on memory modules. Offered in SMT & straight plug in mounting, their precision formed bellow style contacts are manufactured with extremely close tolerances for superior, precise alignment during mating. The DIMM and DDR latching sockets have a smooth actuation and a positive, audible sound to determine proper insertion.

FEATURES:

184 contacts on high density .050" Centerlines
Complies with JEDEC specifications
Available in five key versions
Latches function both as Lock & Ejector

MATING OPTIONS:

All industry standard memory modules

SPECIFICATIONS:

Material:

Standard insulator: Glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Latch: Nylon 66 rated UL94V-0
Insulator color: DIMM & DDR: Black
SO DIMM: White
Contacts: Phosphor Bronze

Contact Plating:

Gold over nickel underplate in contacts area, tin over copper underplate on solder tails

Electrical:

Operating voltage: 250V AC max.
Current rating: 0.5 Amp max.
Contact resistance: 30 mΩ max. initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion Force: 4 oz max
Withdrawal Force: 1 oz min

Temperature Rating:

Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

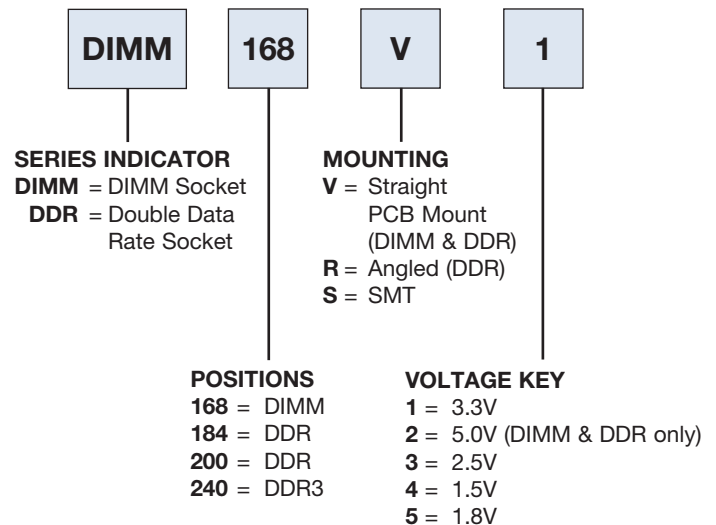
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



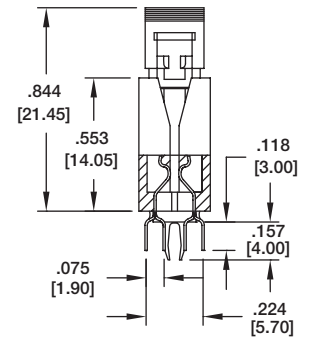
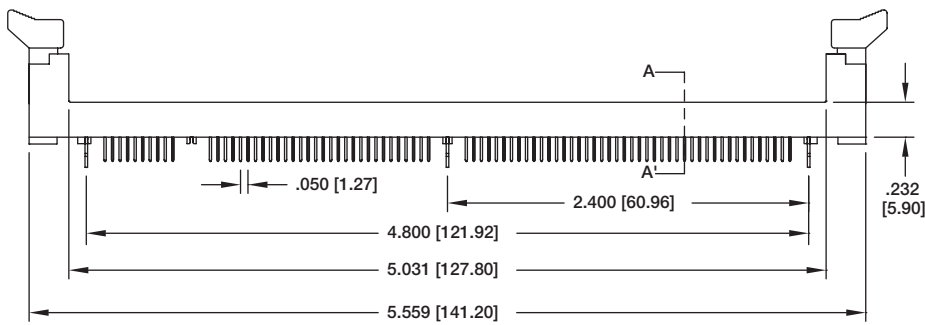
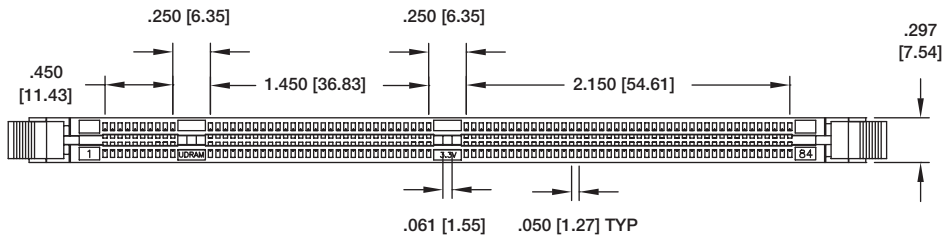
ORDERING INFORMATION



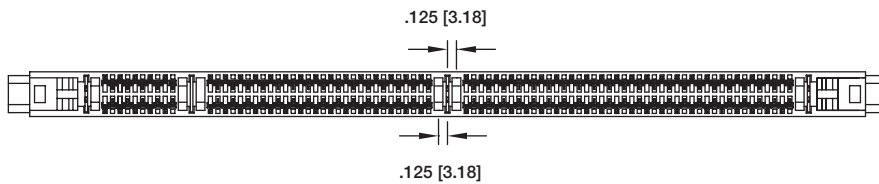
OPTIONS:

Add designator(s) to end of part number
30 = 30 μin gold plating in contact area
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C
YW = Yellow insulator (DDR only)
PU = Purple insulator (DDR only)

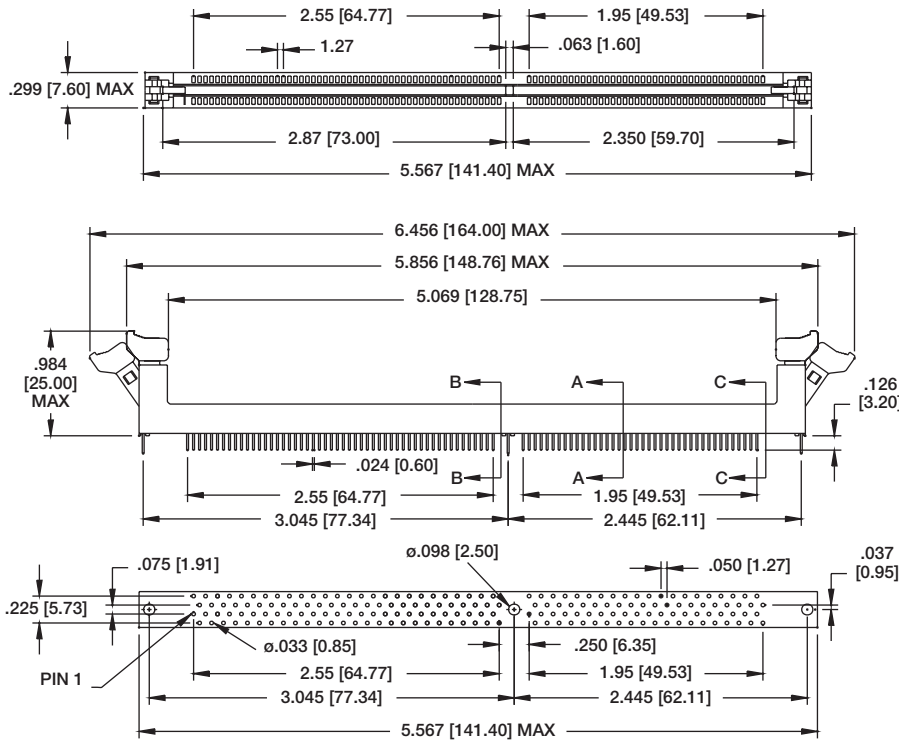
DIMM SOCKET 168 PIN DIMM-168-V-1



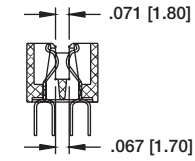
SECTION: A-A



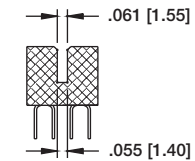
DDR SOCKET 184P-STRAIGHT DDR-184-V-1



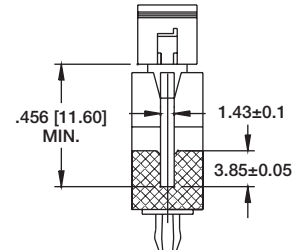
Recommended PCB Layout



DETAIL A-A

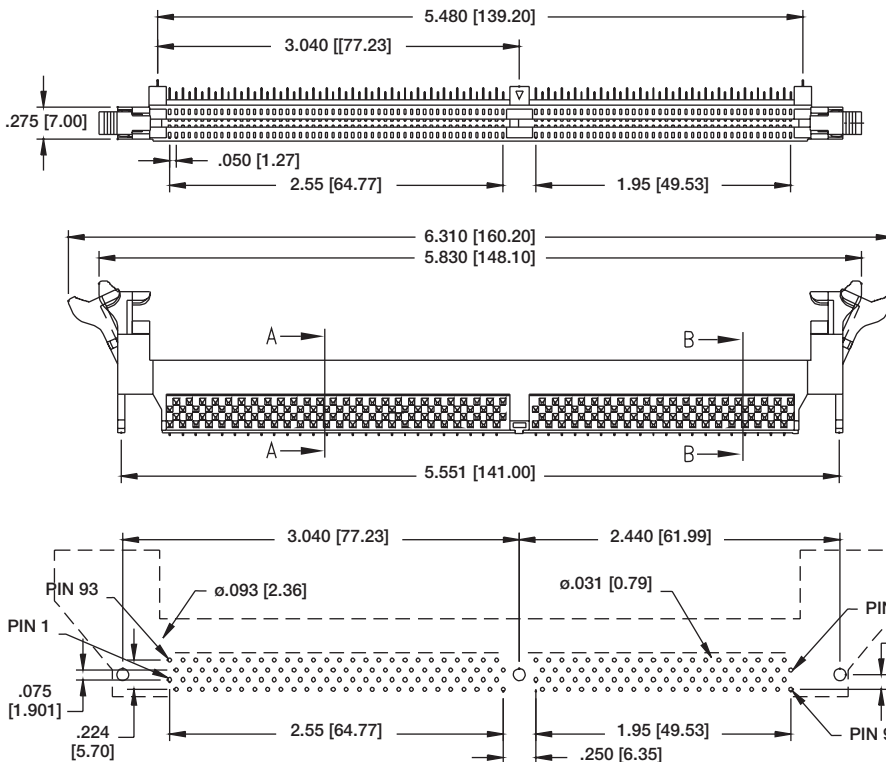


DETAIL B-B

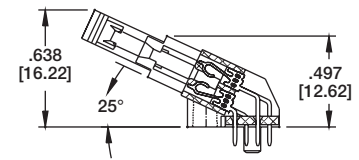


DETAIL C-C

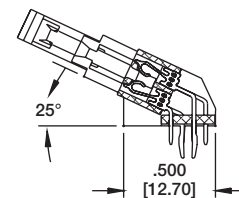
DDR SOCKET 184P-ANGLED DDR-184-R-1



Recommended PCB Layout



SECTION B-B

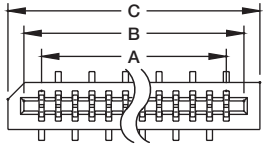


SECTION A-A

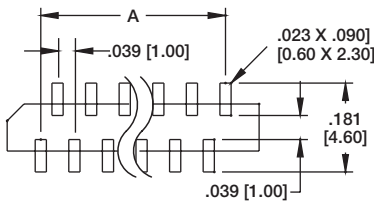
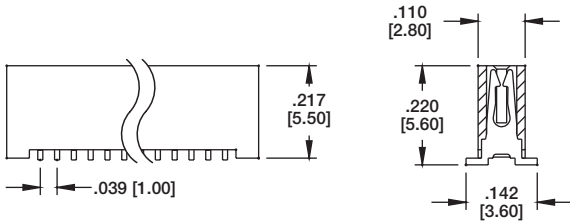
PCB-C
1.00 (.039") TOP ENTRY SMT



PCB-C-09-T-SMT



A = .039 [1.00] X No. of Spaces
B = A + .090 [2.30]
C = A + .157 [4.00]

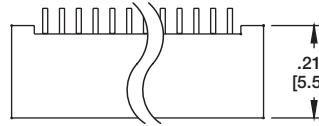


Recommended PCB Layout

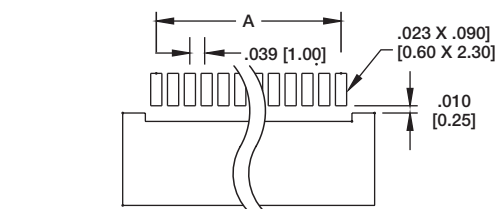
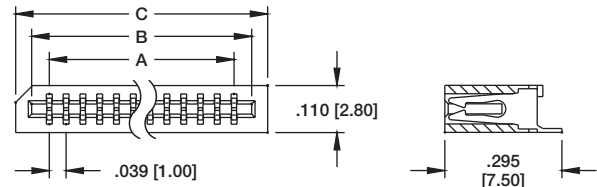
PCB-C
1.00 (.039") SIDE ENTRY SMT



PCB-C-18-SA-SMT



A = .039 [1.00] X No. of Spaces
B = A + .090 [2.30]
C = A + .157 [4.00]

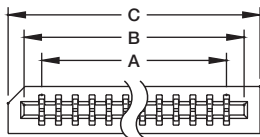


Recommended PCB Layout

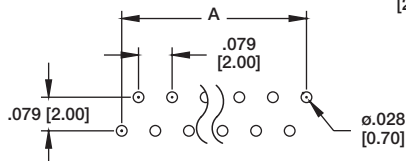
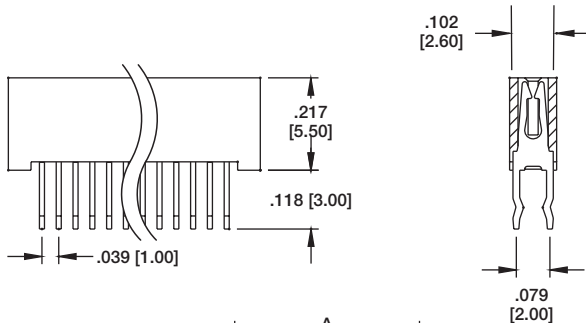
PCB-C
1.00 (.039") TOP ENTRY THRU HOLE



PCB-C-18-T-20

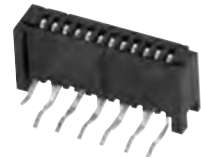


A = .039 [1.00] X No. of Spaces
B = A + .090 [2.30]
C = A + .157 [4.00]

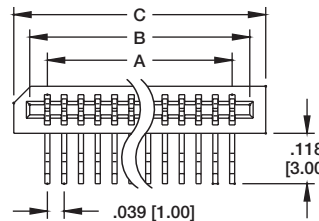


Recommended PCB Layout

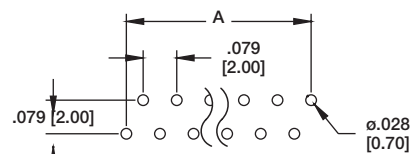
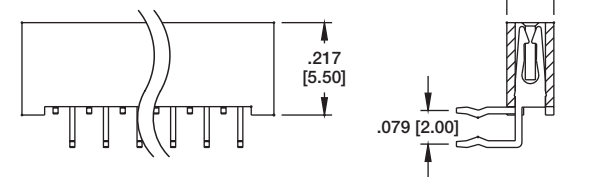
PCB-C
1.00 (.039") SIDE ENTRY THRU HOLE



PCB-C-12-SA-20

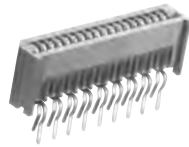
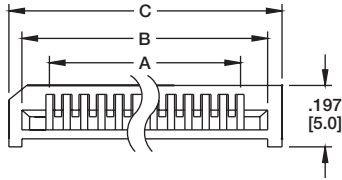


A = .039 [1.00] X No. of Spaces
B = A + .090 [2.30]
C = A + .157 [4.00]

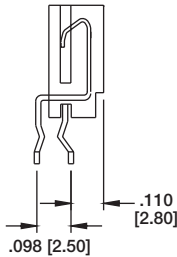
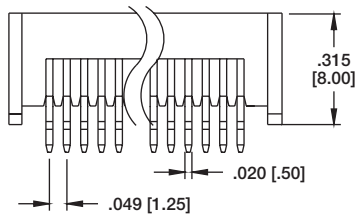


Recommended PCB Layout

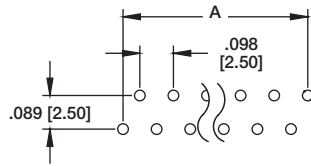
PCB-B
1.25 (.049") TOP ENTRY THRU HOLE



PCB-B-18-T-25

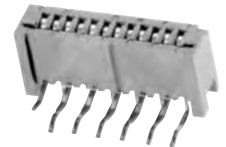
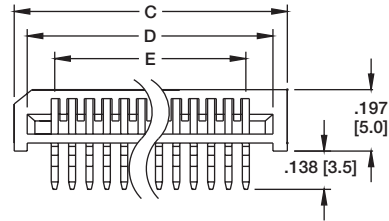


A = .049 [1.25] X No. of Spaces
B = A + .098 [2.50]
C = A + .197 [5.00]

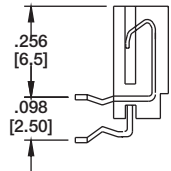
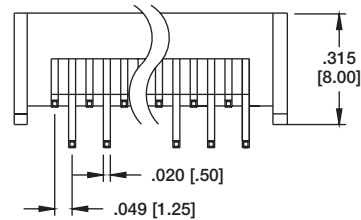


Recommended PCB Layout

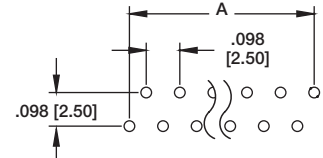
PCB-B
1.25 (.049") SIDE ENTRY THRU HOLE



PCB-B-12-SA-25

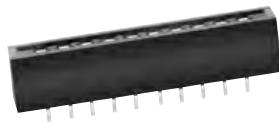
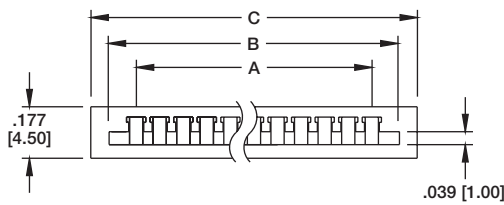


A = .049 [1.25] X No. of Spaces
B = A + .098 [2.50]
C = A + .197 [5.00]

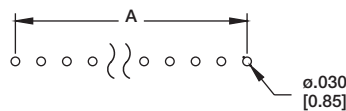
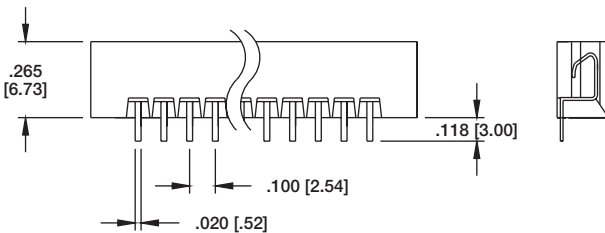


Recommended PCB Layout

PCB-A
.100" (2.54) TOP ENTRY INLINE THRU HOLE



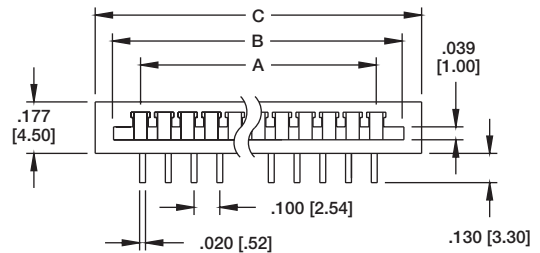
PCB-A-10-T



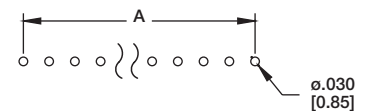
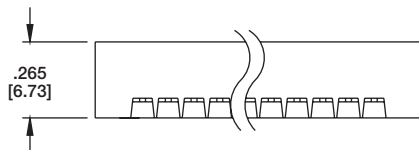
A = .100 [2.54] x no. of Spaces
B = A + .232 [5.90]
C = A + .315 [8.00]

Recommended PCB Layout

PCB-A
.100" (2.54) SIDE ENTRY INLINE THRU HOLE



PCB-A-13-SA



A = .100 [2.54] x no. of Spaces
B = A + .232 [5.90]
C = A + .315 [8.00]

Recommended PCB Layout

0.3mm [.012"] CENTERLINE
 0.5mm [.020"] CENTERLINE
 0.8mm [.031"] CENTERLINE
 1.0mm [.039"] CENTERLINE
 1.25mm [.049"] CENTERLINE
 PCA SERIES

INTRODUCTION:

Adam Tech PCA Series Flexible Printed Circuit (FPC) and Flexible Flat Cable (FFC) connectors are ZIF (zero insertion force) connectors designed to provide a fast, easy, reliable method to make a connection of flexible printed circuits to a PCB. Adam Tech's special contact design completely preserves conductor integrity by eliminating all wiping action while making connection. Flex circuitry enters the connector and the connector cap is pressed down to capture the flex circuit producing a stable, high pressure connection. Raising the cap releases the pressure for exchange or replacement of circuitry. This series includes single and dual row versions in thru-hole or SMT mounting in vertical or horizontal orientations.

FEATURES:

Superior contact design protects conductors
 High pressure contacts
 Single or dual row versions
 Choice of .3mm, .5mm, .8mm, 1mm & 1.25mm centerlines

MATING FPC & FFC:

Mates with .3mm, .5mm, .8mm, 1mm & 1.25mm centerline flat flexible circuits with thickness range of 0.1mm to 0.3mm

SPECIFICATIONS:

Material:

Hi-Temp Insulator: LCP, Glass reinforced, rated UL94V-0
 Insulator color: Natural
 Contacts: Phosphor Bronze

Contact Plating:

Tin over copper underplate overall

Electrical:

Operating voltage: 100V AC max.
 Current rating: .020" Spacing: 0.4 Amps max.
 .031" & .039" Spacing: 0.5 Amps max
 .049" Spacing: 1 Amp max

Contact resistance: 30 mΩ max. initial
 Insulation resistance: 500 MΩ min.
 Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion Force: 0 oz max
 Withdrawal Force: 13 oz min

Temperature Rating:

Operating temperature: -40°C to +85°C
 Soldering process temperature: 260°C

PACKAGING:

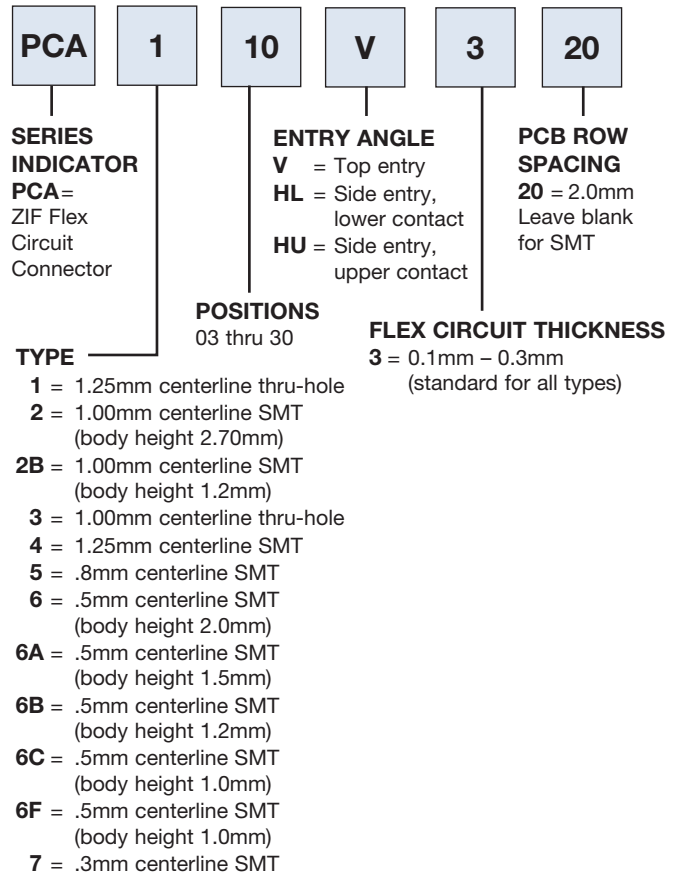
Anti-ESD plastic tubes or Tape and Reel

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION

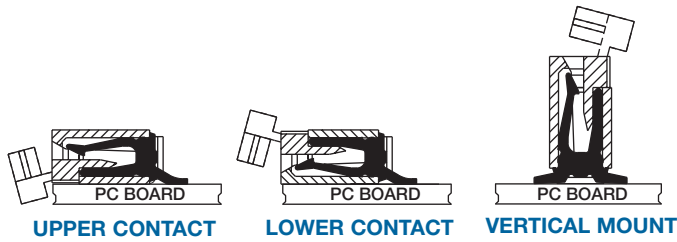


OPTIONS:

Add designator(s) to end of part number
G = Gold plated contacts
TR = Tape and reel packaging



CONTACT SECTION VIEWS



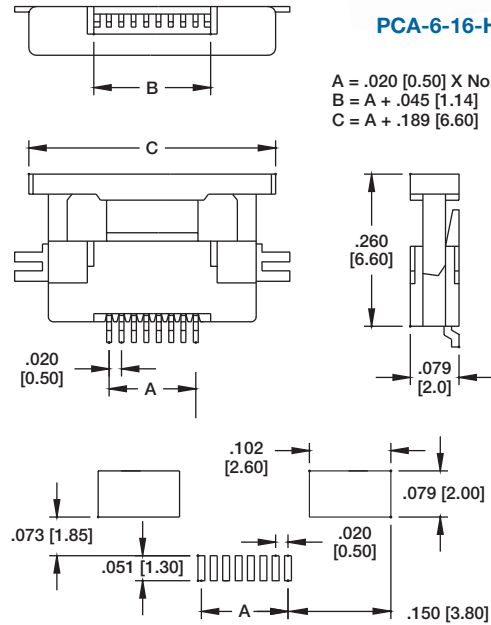
PCA-6

.5mm (.020") SIDE ENTRY SMT



PCA-6-16-HU-3

A = .020 [0.50] X No. of Spaces
 B = A + .045 [1.14]
 C = A + .189 [6.60]



Recommended PCB Layout

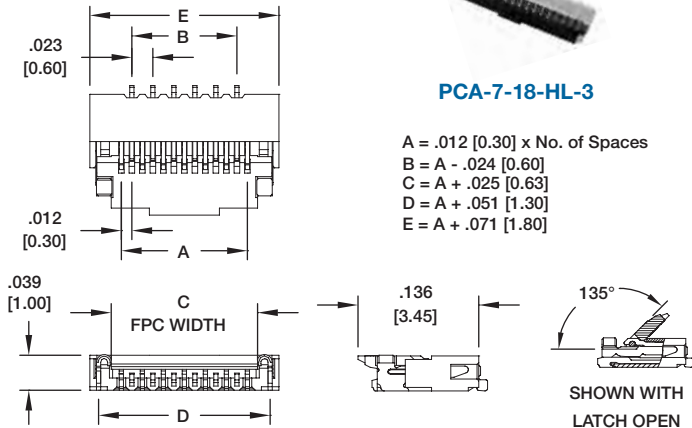
PCA-7

.3mm (.012") SIDE ENTRY SMT



PCA-7-18-HL-3

A = .012 [0.30] x No. of Spaces
 B = A - .024 [0.60]
 C = A + .025 [0.63]
 D = A + .051 [1.30]
 E = A + .071 [1.80]



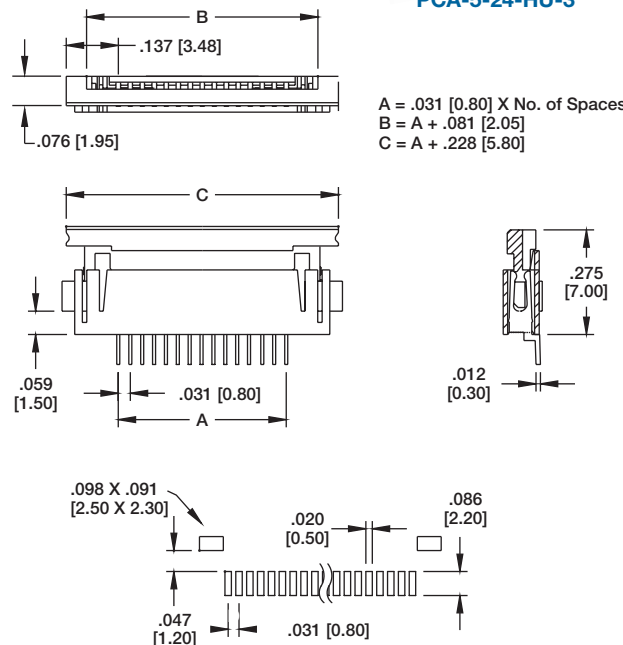
PCA-5

.8mm (.031") SIDE ENTRY SMT



PCA-5-24-HU-3

A = .031 [0.80] X No. of Spaces
 B = A + .081 [2.05]
 C = A + .228 [5.80]



Recommended PCB Layout

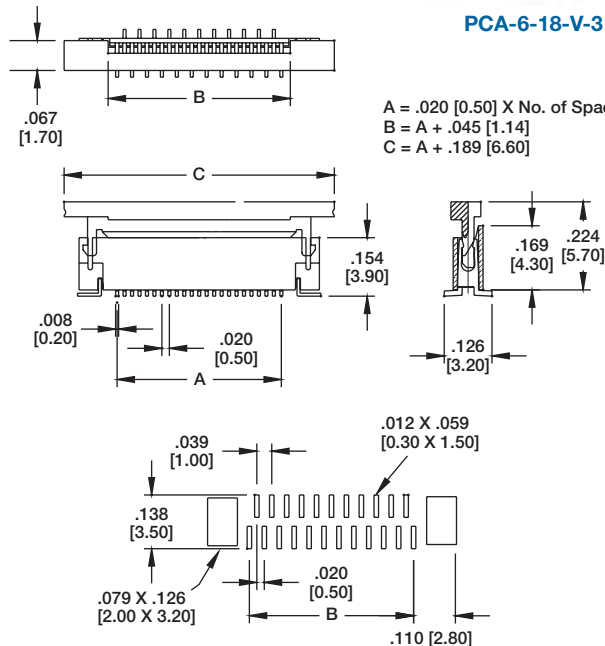
PCA-6

.5mm (.020") TOP ENTRY SMT



PCA-6-18-V-3

A = .020 [0.50] X No. of Spaces
 B = A + .045 [1.14]
 C = A + .189 [6.60]



Recommended PCB Layout

PCA-2

1.00mm (.039")

SIDE ENTRY SMT

$$A = .039 [1.00] \times \text{No. of Spaces}$$

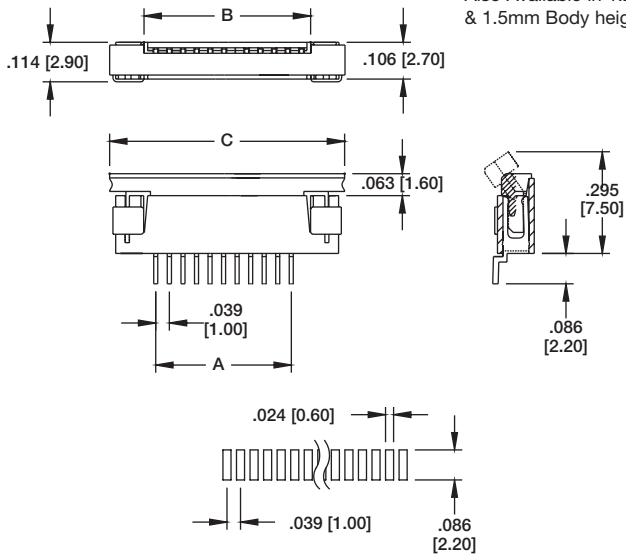
$$B = A + .090 [2.30]$$

$$C = A + .280 [7.10]$$



PCA-2-10-HU-3

Also Available in 1.2mm & 1.5mm Body heights



Recommended PCB Layout

PCA-2

1.00mm (.039")

TOP ENTRY SMT

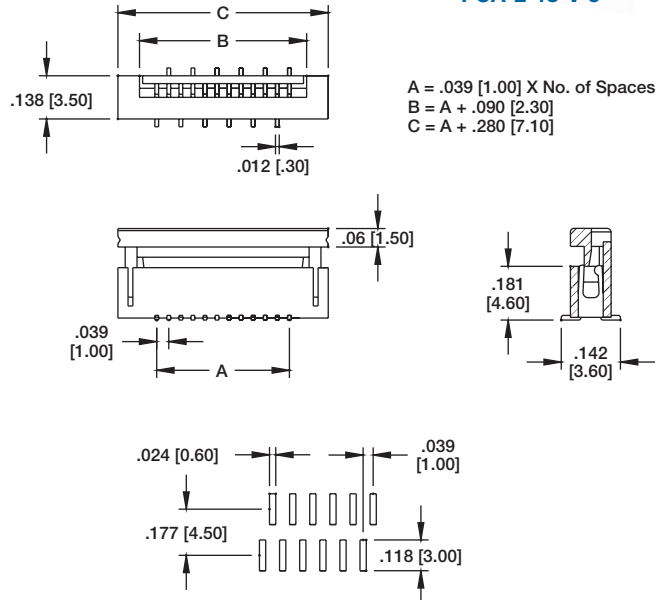


PCA-2-18-V-3

$$A = .039 [1.00] \times \text{No. of Spaces}$$

$$B = A + .090 [2.30]$$

$$C = A + .280 [7.10]$$



Recommended PCB Layout

PCA-1

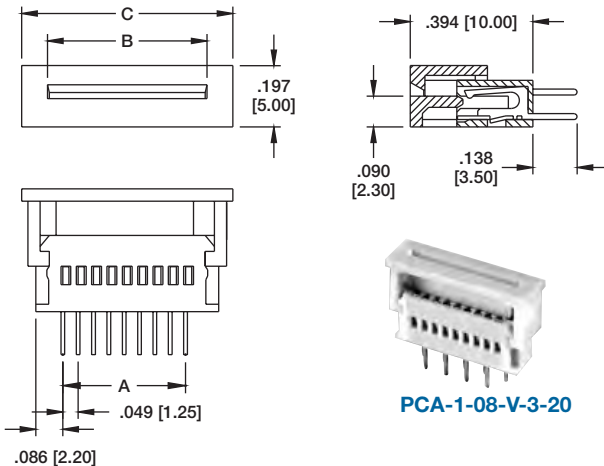
1.25mm (.049")

TOP ENTRY THRU HOLE

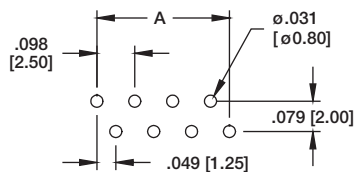
$$A = .049 [1.25] \times \text{No. of Spaces}$$

$$B = A + .106 [2.70]$$

$$C = A + .303 [7.70]$$



PCA-1-08-V-3-20



Recommended PCB Layout

PCA-1

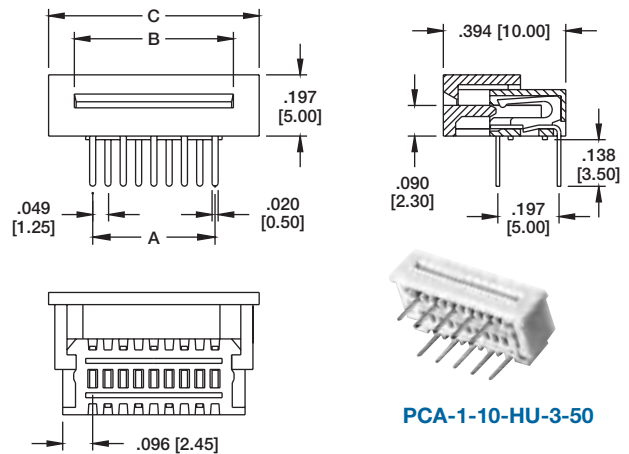
1.25mm (.049")

TOP ENTRY THRU HOLE

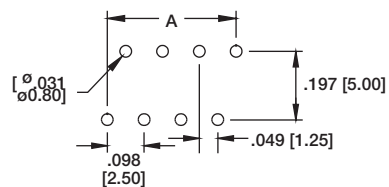
$$A = .049 [1.25] \times \text{No. of Spaces}$$

$$B = A + .106 [2.70]$$

$$C = A + .303 [7.70]$$



PCA-1-10-HU-3-50



Recommended PCB Layout

INTRODUCTION:

Adam Tech ADC Series DC Power Jacks are a complete line of miniature and sub-miniature power jacks primarily used for the transmission of wall current transformed to DC power, for detached and hand held instruments. Adam Tech power jacks are manufactured with a variety of center pin sizes for all standard applications including 1.00mm, 1.30mm, 2.00mm and 2.50mm. Our contact is designed using a wide spring grade plated copper alloy for exceptional plug retention and low contact resistance.

FEATURES:

- Low Profile designs
- Superior contact system
- Exceptional plug retention
- Choice of Center pin sizes
- Hi Temp Versions
- Hi Current Versions

MATING PLUGS:

All industry standard 1.00mm, 1.30mm, 2.00mm, 2.35mm and 2.50mm Plugs.

SPECIFICATIONS:

Material:

Standard insulator: PBT Glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
 Insulator Color: Black
 Center Pin: Brass, Nickel plated
 Contacts: Copper alloy

Contact Plating:

Silver over nickel underplate

Electrical:

Operating voltage: 12V DC max.
 Current rating: 1 Amp max.
 Contact resistance: 30 mΩ max. initial
 Insulation resistance: 50 MΩ min.
 Dielectric withstanding voltage: 250V AC for 1 minute

Mechanical:

Insertion force: 3 kg max.
 Withdrawal force: 0.3 kg min
 Mating durability: 5000 cycles min.

Temperature Rating:

Operating temperature: -25°C to +85°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

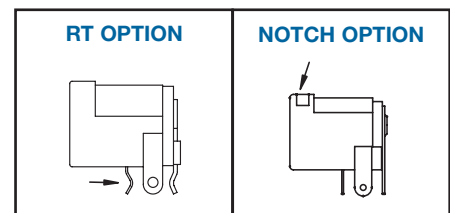
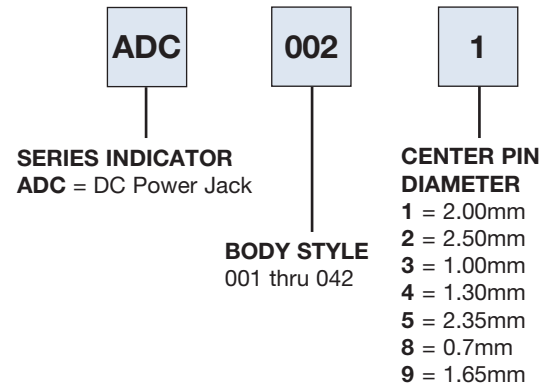
Anti-ESD plastic bags or Tape and Reel

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION



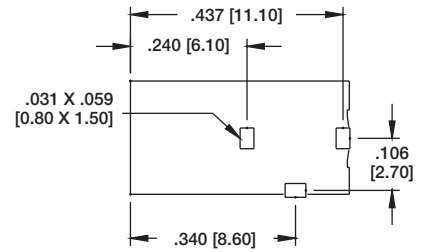
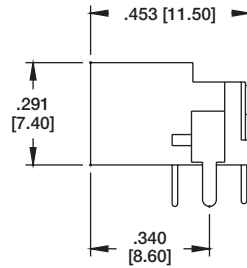
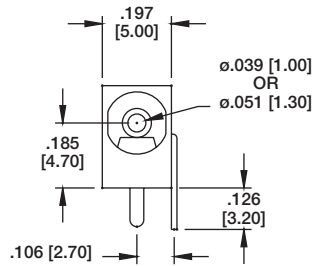
OPTIONS:

- Add designator(s) to end of part number
- RT** = PC Board Retention Feature (Type 007 & 009 only)
- HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C
- N** = Notch option, (ADC-002 only)
- ADC-H** = DC Power Jack Hi-Current 5 Amp Version

ADC-007



ADC-007-3

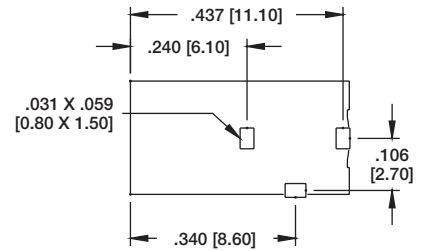
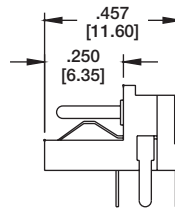
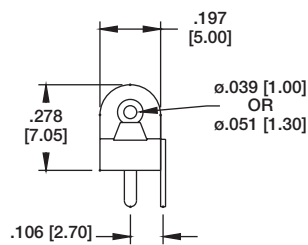


Recommended PCB Layout

ADC-009



ADC-009-3

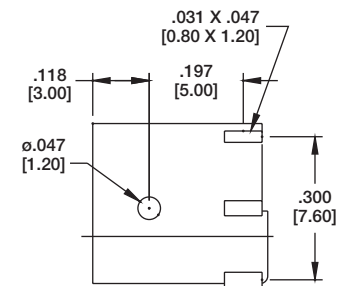
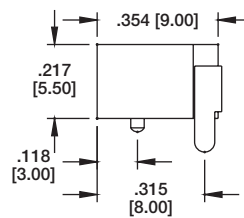
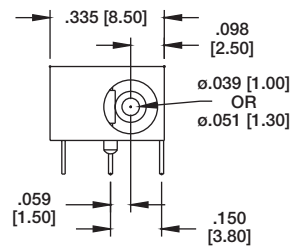


Recommended PCB Layout

ADC-011

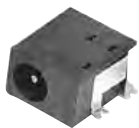


ADC-011-3

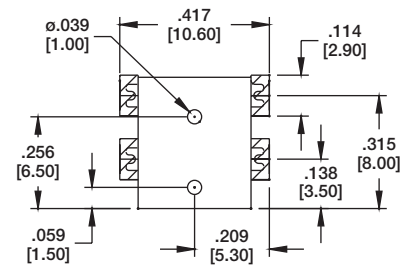
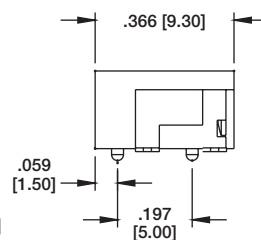
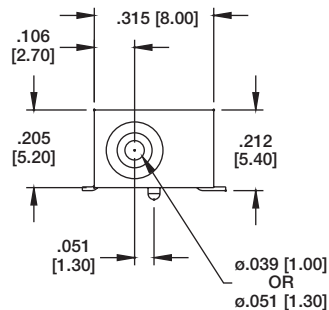


Recommended PCB Layout

ADC-021



ADC-021-3

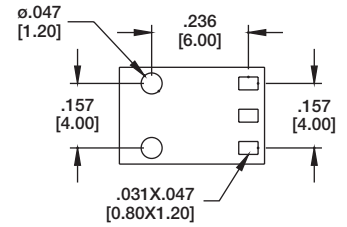
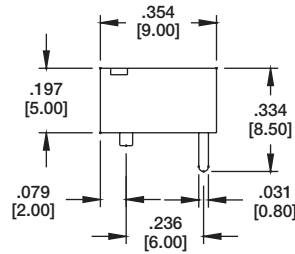
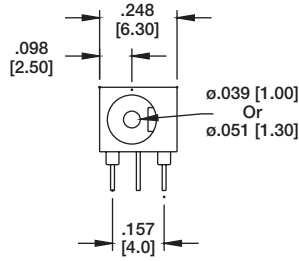


Recommended PCB Layout

ADC-029



ADC-029-1

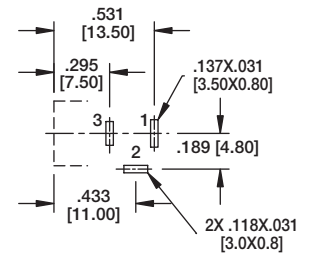
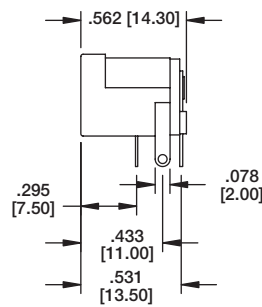
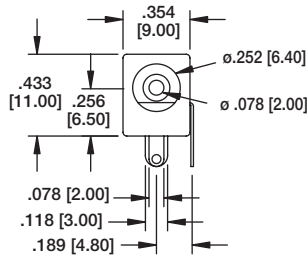


Recommended PCB Layout

ADC-002



ADC-002-2

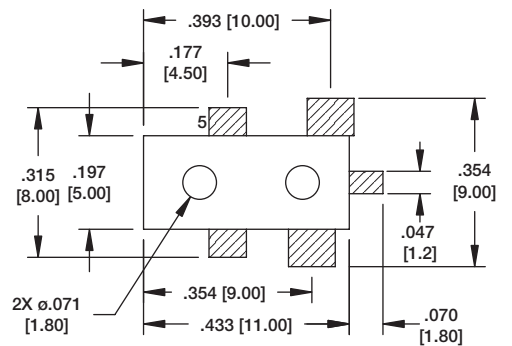
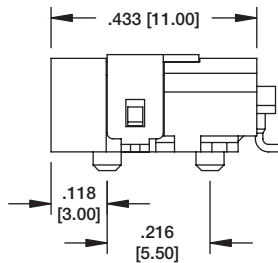
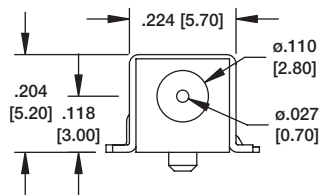


Recommended PCB Layout

ADC-024



ADC-024-8-SMT

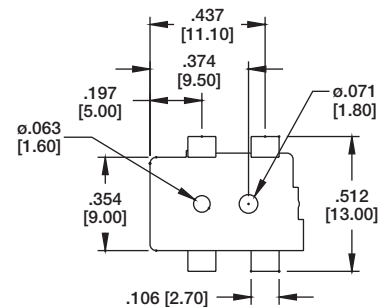
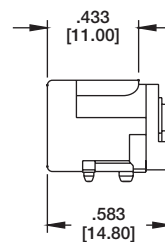
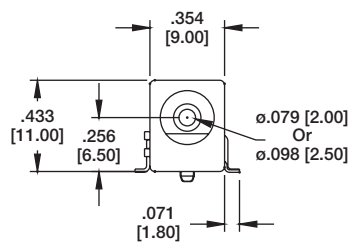


Recommended PCB Layout

ADC-028



ADC-028-2



Recommended PCB Layout

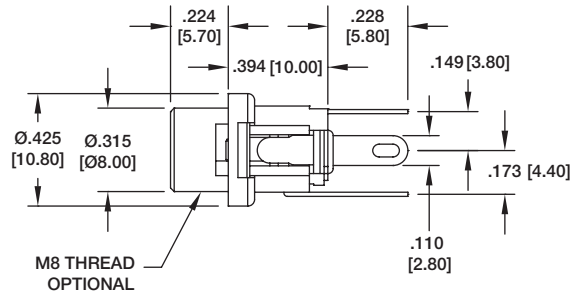
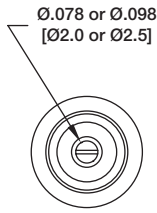
ADC-027



ADC-027-2



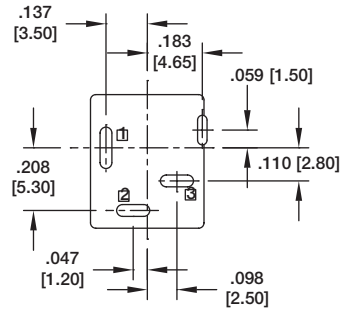
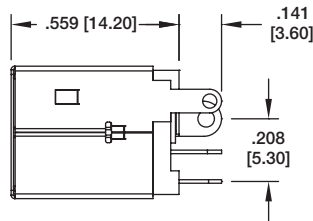
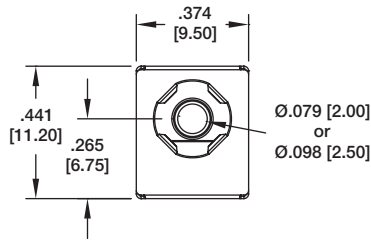
ADC-027-1-M8



ADC-085



ADC-085-1

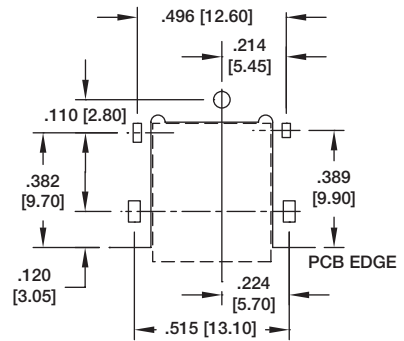
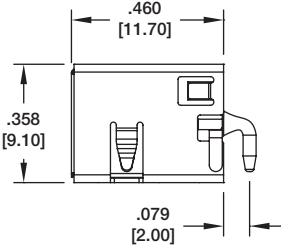
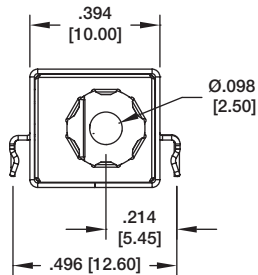


Recommended PCB Layout

ADC-086



ADC-086

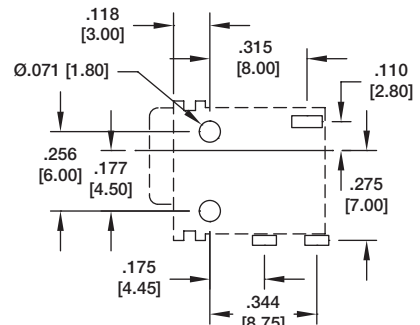
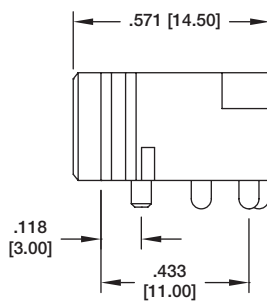
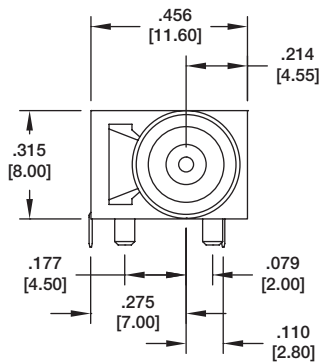


Recommended PCB Layout

ADC-087



ADC-087

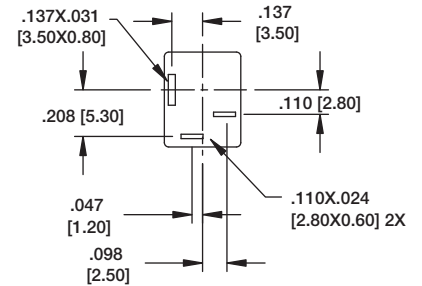
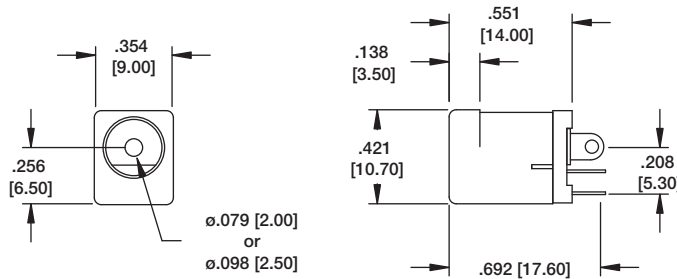


Recommended PCB Layout

ADC-010



ADC-010-1

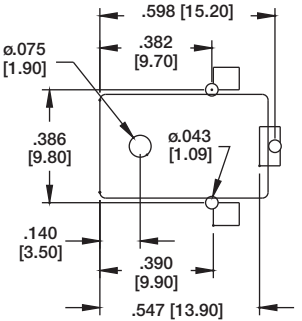
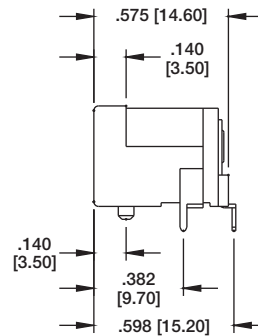
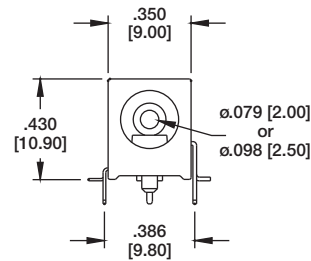


Recommended PCB Layout

ADC-015



ADC-015-2

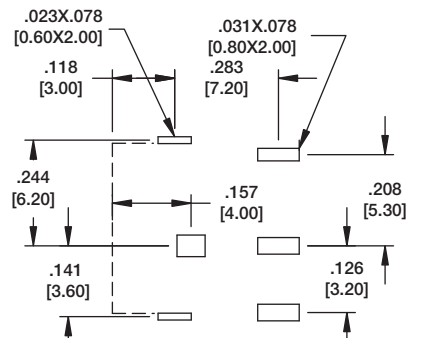
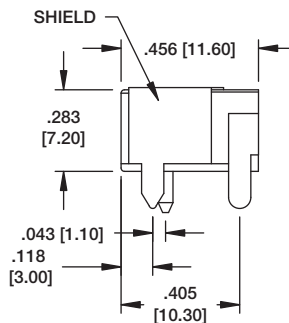
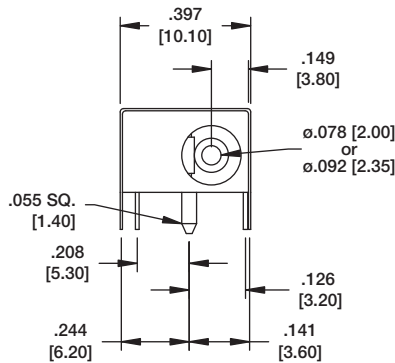


Recommended PCB Layout

ADC-045A

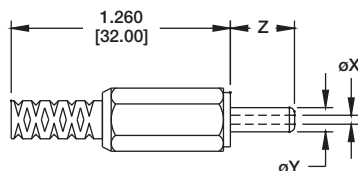


ADC-045A-1



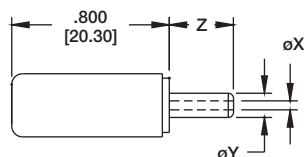
Recommended PCB Layout

ADP-PLUG WITH STRAIN RELIEF



PLUG WITH STRAIN RELIEF	X	Y	Z
ADP-X/Y/Z-SR	$\phi .039$ [1.00]	$\phi .137$ [3.50]	.374 [9.50]
ADP-X/Y/Z-SR	$\phi .082$ [2.10]	$\phi .216$ [5.50]	.374 [9.50]
ADP-X/Y/Z-SR	$\phi .098$ [2.50]	$\phi .216$ [5.50]	.374 [9.50]

ADP-PLUG WITHOUT STRAIN RELIEF



PLUG WITHOUT STRAIN RELIEF	X	Y	Z
ADP-X/Y/Z	$\phi .039$ [1.00]	$\phi .137$ [3.50]	.374 [9.50]
ADP-X/Y/Z	$\phi .082$ [2.10]	$\phi .216$ [5.50]	.374 [9.50]
ADP-X/Y/Z	$\phi .098$ [2.50]	$\phi .216$ [5.50]	.374 [9.50]

INTRODUCTION:

Adam Tech ASJ Series Stereo Jacks are a broad range of 2.6mm and 3.5mm jacks used primarily in computer and multi-media audio applications. This series provides a multitude of sizes and configurations that are available in single or multiple switching forms. Options include choice of full plastic or metal reinforced bodies, single, stacked or ganged versions and color-coded jacks for port identification.

FEATURES:

- Broad range of sizes and configurations
- Single or Multiple switching functions
- Plastic or Metal reinforced bodies
- Ganged and Stacked versions
- Color Coded option for Port Identification

MATING PLUGS:

All industry standard 2.50mm and 3.50mm mono or stereo plugs.

SPECIFICATIONS:

Material:

Standard insulator: PBT or LCP, Glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
 Insulator Color: Black
 Bushing: Brass, Nickel plated
 Contacts: Copper alloy

Contact Plating:

Tin over Copper underplate

Electrical:

Operating voltage: 12V DC max.
 Current rating: 1 Amp max.
 Contact resistance: 30 mΩ max. initial
 Insulation resistance: 100 MΩ min.
 Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 4.4 lbs max.
 Withdrawal force: 0.3 kg min
 Mating durability: 5000 cycles min.

Temperature Rating:

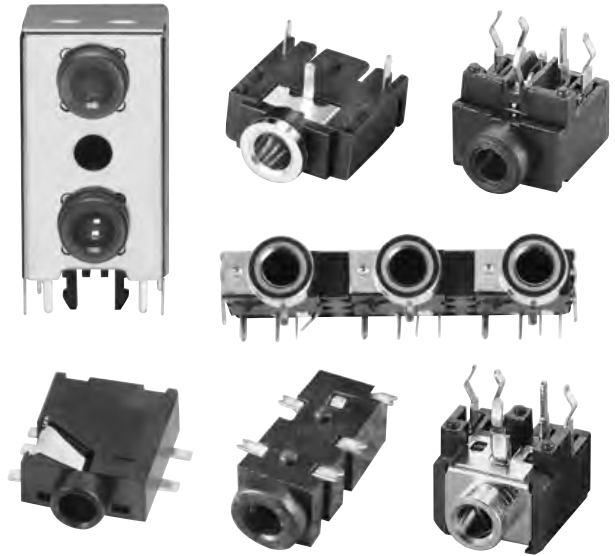
Operating temperature: -25°C to +85°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

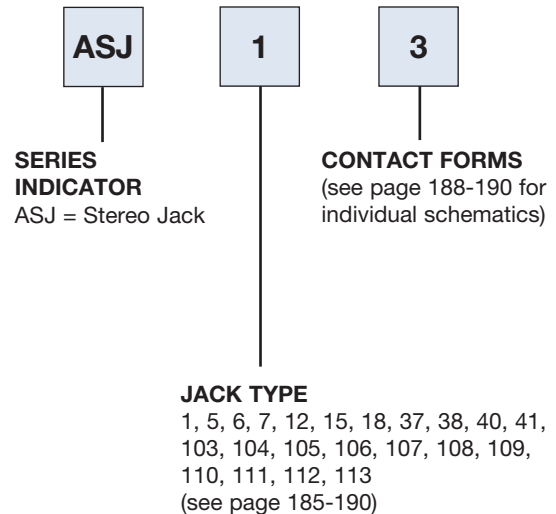
Anti-ESD plastic bags or Tape and Reel

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION



OPTIONS:

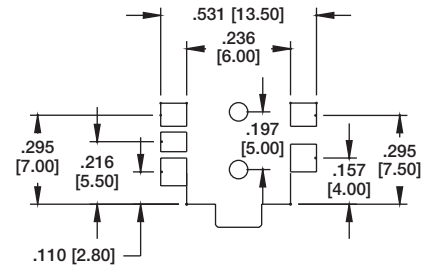
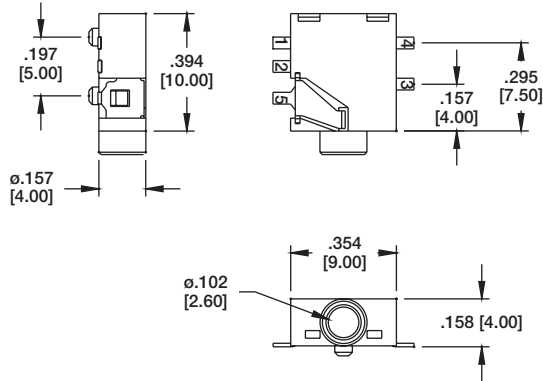
Add designator(s) to end of part number
E = No back cover (Type 1 only)
M = M6 x 0.5 threaded bushing
HT = Hi-Temp Nylon 6T insulator for Hi-Temp soldering processes up to 260°C
TR = Tape & Reel packaging



ASJ-12



ASJ-12-5

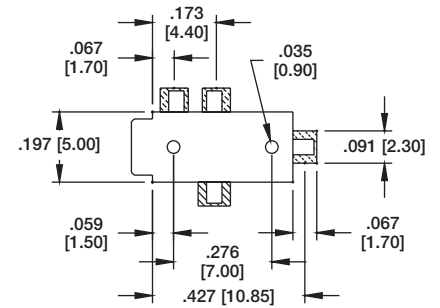
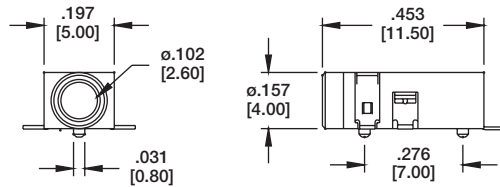


Recommended PCB Layout

ASJ-18



ASJ-18-4B

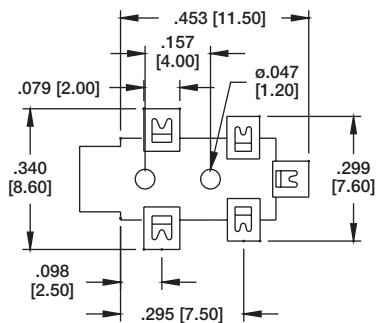
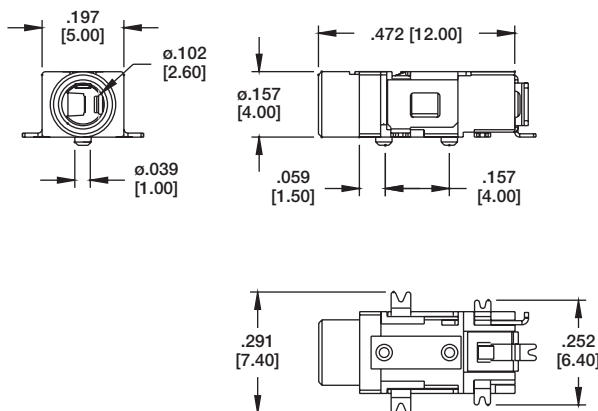


Recommended PCB Layout

ASJ-38

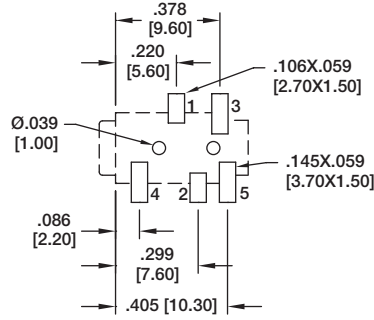
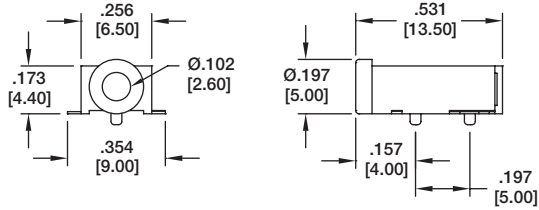


ASJ-38-5



Recommended PCB Layout

ASJ-103



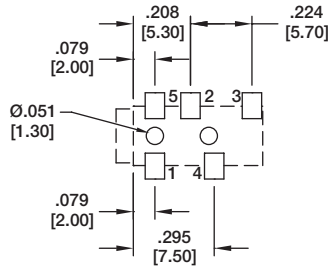
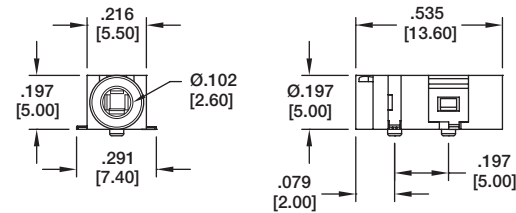
Recommended PCB Layout



ASJ-103-J

ASJ-103-J	ASJ-103-M

ASJ-104



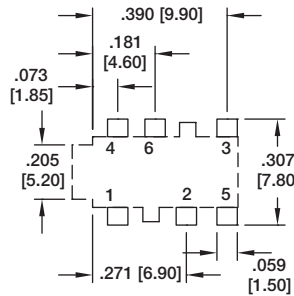
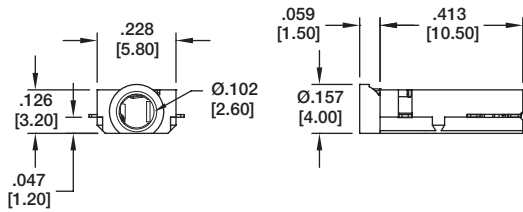
Recommended PCB Layout



ASJ-104-J

ASJ-104-J

ASJ-105



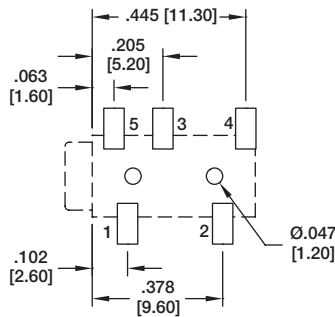
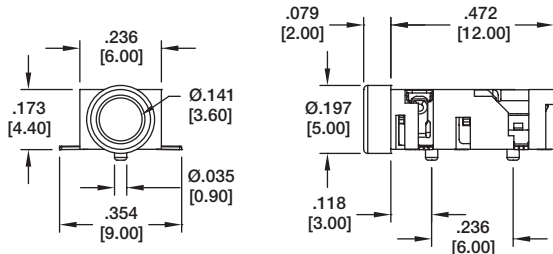
Recommended PCB Layout



ASJ-105-A

ASJ-105-A	ASJ-105-B	
ASJ-105-D	ASJ-105-M	ASJ-105-I

ASJ-106



Recommended PCB Layout



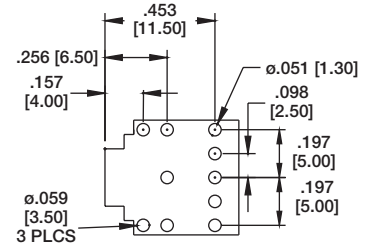
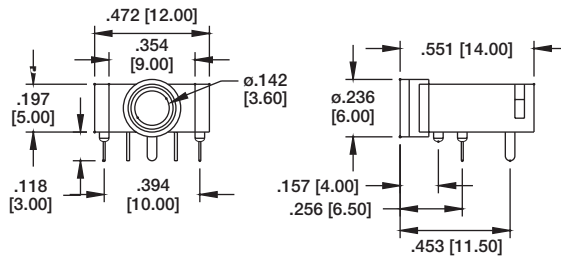
ASJ-106-C

ASJ-106-C	ASJ-106-D	
ASJ-106-K	ASJ-106-P	ASJ-106-B

ASJ-1



ASJ-1-3

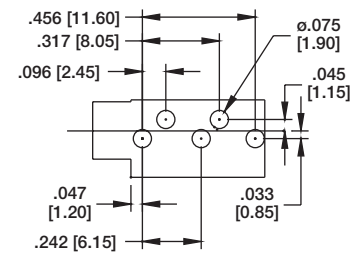
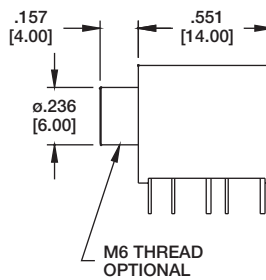
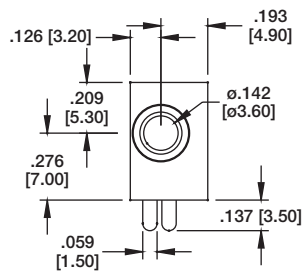


Recommended PCB Layout

ASJ-5



ASJ-5-4A

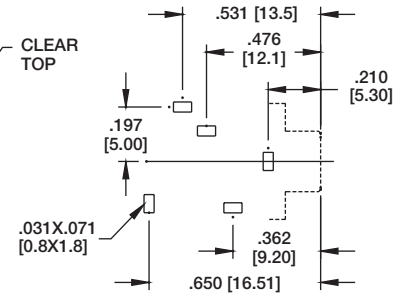
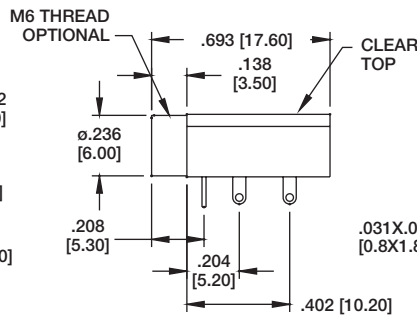
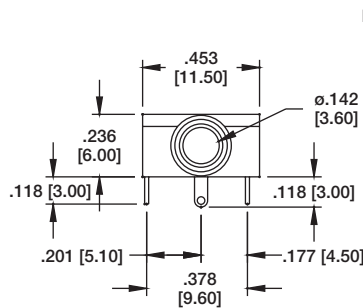


Recommended PCB Layout

ASJ-37



ASJ-37-5-M

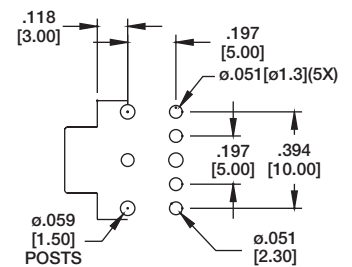
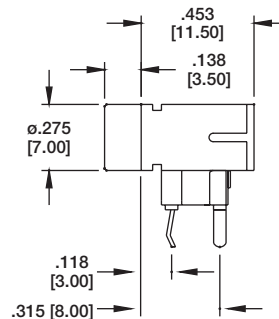
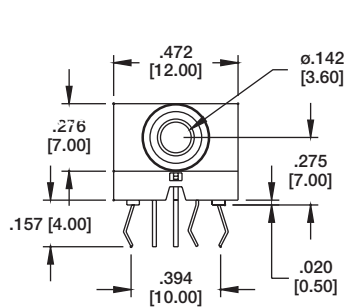


Recommended PCB Layout

ASJ-6



ASJ-6-5



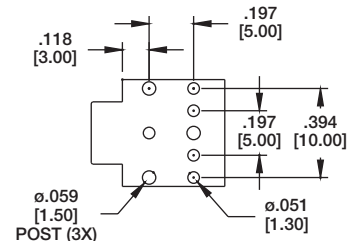
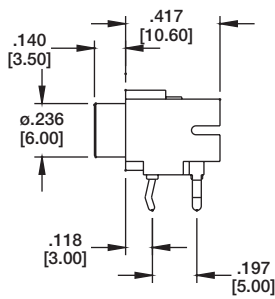
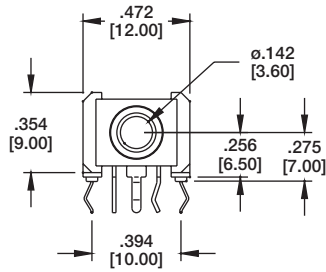
Recommended PCB Layout

CONTACT FORM	FORM 2	FORM 3	FORM 3A	FORM 4A	FORM 4B	FORM 5
SCHEMATIC						

ASJ-7

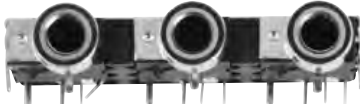


ASJ-7-5

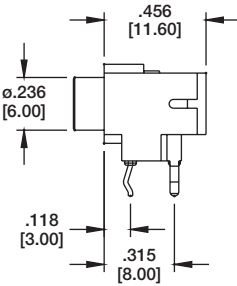
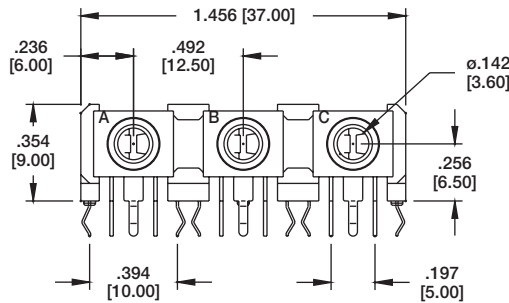


Recommended PCB Layout

ASJ-40



ASJ-40-4A

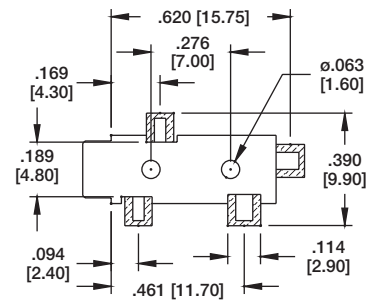
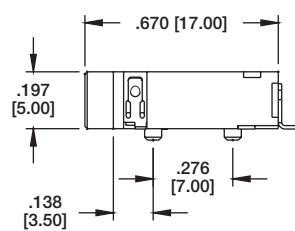
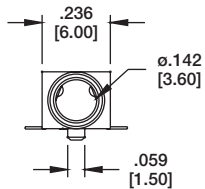


Recommended PCB Layout

ASJ-15



ASJ-15-4B

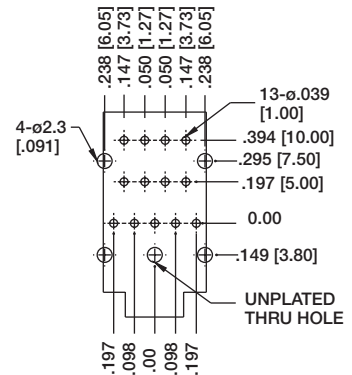
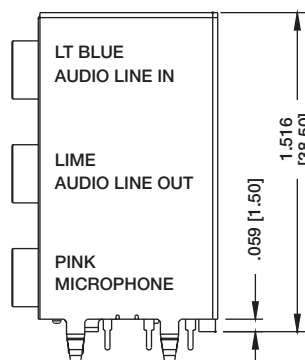
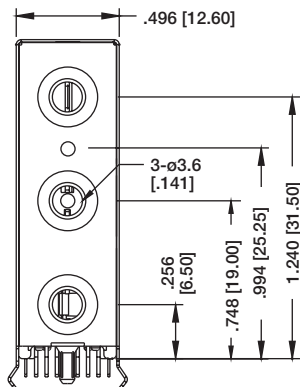


Recommended PCB Layout

ASJ-41

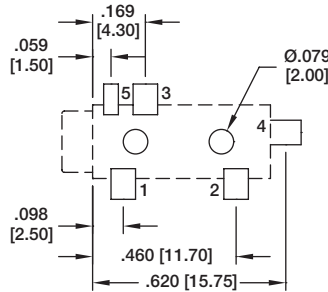
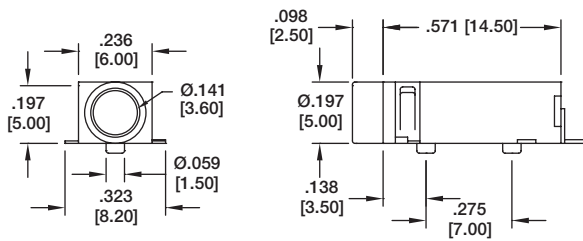


ASJ-41-5



Recommended PCB Layout

ASJ-107

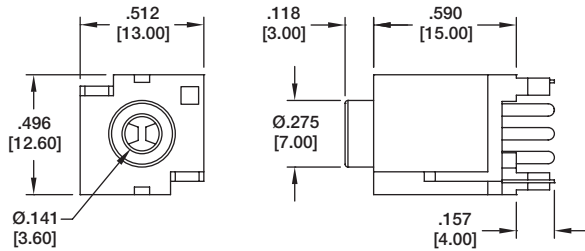


ASJ-107-B

	ASJ-107-B	ASJ-107-C
	ASJ-107-D	ASJ-107-F
	ASJ-107-A	

Recommended PCB Layout

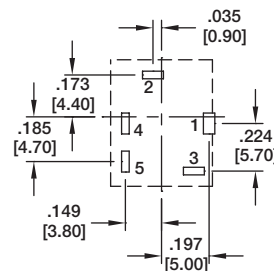
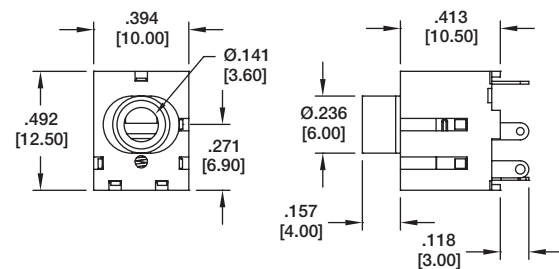
ASJ-108



ASJ-108-A

ASJ-108-A	ASJ-108-B	ASJ-108-C	ASJ-108-D	ASJ-108-G
ASJ-108-F	ASJ-108-L	ASJ-108-N	ASJ-108-K	ASJ-108-W

ASJ-109

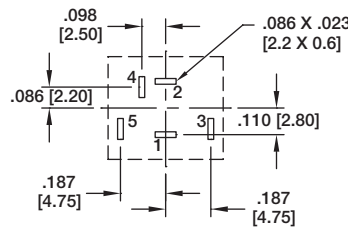
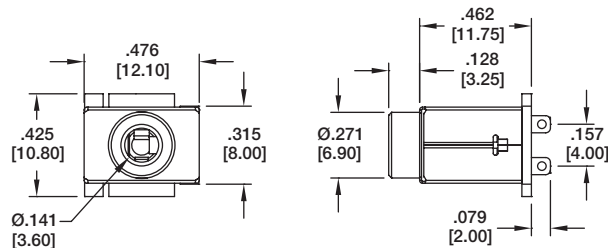


ASJ-109-A

ASJ-109-A	ASJ-109-B	ASJ-109-D

Recommended PCB Layout

ASJ-110

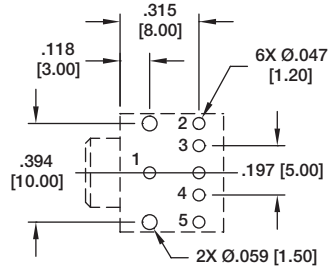
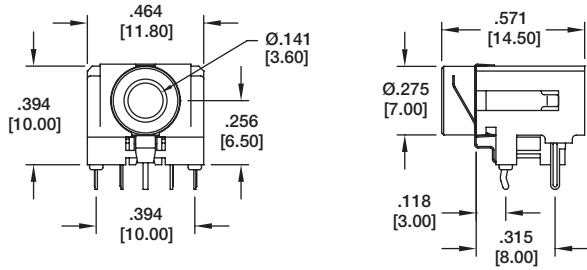


ASJ-110-A

ASJ-110-L

Recommended PCB Layout

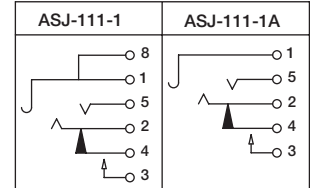
ASJ-111



Recommended PCB Layout



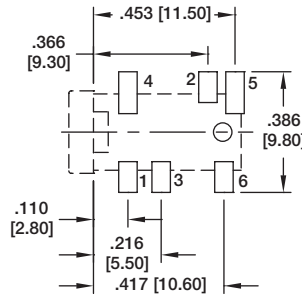
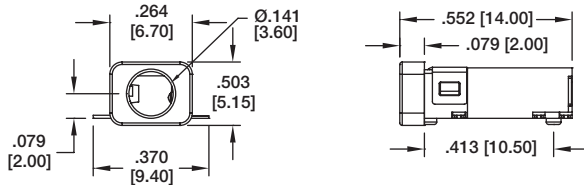
ASJ-111-1



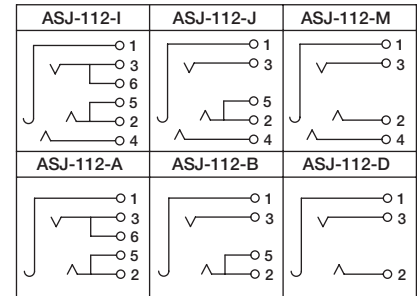
ASJ-112



ASJ-112-J



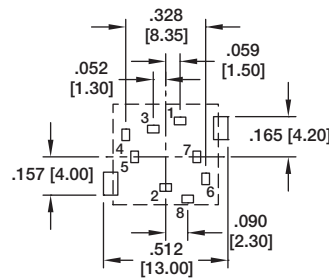
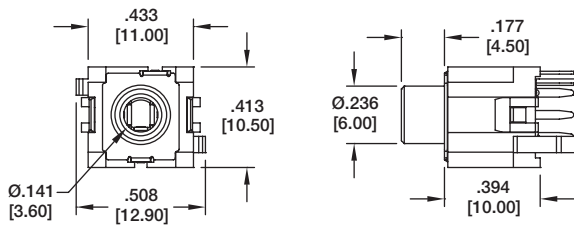
Recommended PCB Layout



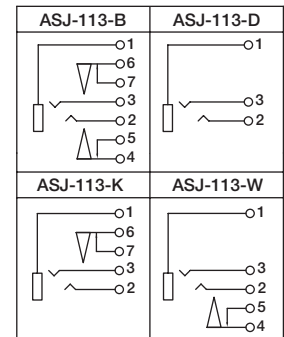
ASJ-113



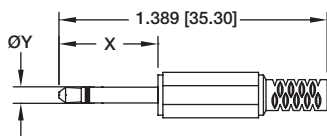
ASJ-113-B



Recommended PCB Layout

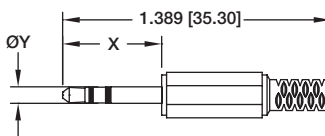


MONO AUDIO PLUG



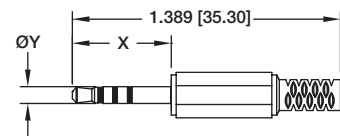
DIMENSION	X	Y
ASP-2.5-M	.468 [11.90]	Ø.098 [2.50]
ASP-3.5-M	.590 [15.00]	Ø.137 [3.50]

STEREO AUDIO PLUG 2 CHANNEL

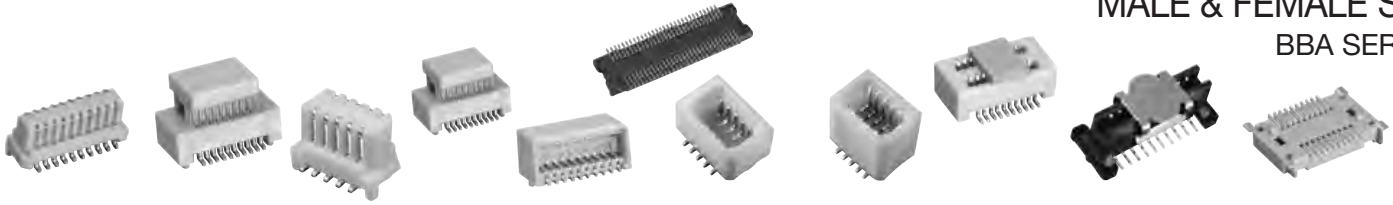


DIMENSION	X	Y
ASP-2.5-S	.468 [11.90]	Ø.098 [2.50]
ASP-3.5-S	.590 [15.00]	Ø.137 [3.50]

STEREO AUDIO PLUG 3 CHANNEL



DIMENSION	X	Y
ASP-2.5-S3	.468 [11.90]	Ø.098 [2.50]
ASP-3.5-S3	.590 [15.00]	Ø.137 [3.50]



INTRODUCTION:

Adam Tech Board-to-Board connectors are a custom manufactured product generally tooled to a customer's application specific requirements. Advantages include significant cost reductions, enhanced product features or special performance requirements. Design options include variable heights, extremely low profile types, SMT and polarized mated sets in five different pitches. Adam Tech provides experienced capabilities in a wide assortment of insulator and contact designs with cost, reliability and compatibility for automatic insertion machine pick up. These connectors are ideal for cell phones, pagers, video equipment, small portable equipment and anywhere an LCD display is used.

FEATURES:

- Designed for Multiple board stacking heights
- Common pin counts can be tooled
- Hi-Temp material designs
- High reliability precision formed contact designs

SPECIFICATIONS:

Material:

Insulator: LCP or Nylon 6T
Contacts: Phosphor Bronze

Contact Plating:

Tin or Gold flash over copper underplate

Electrical:

Operating voltage: 50V AC max.
Current rating:
0.5mm: 0.3 Amps max
0.8mm: 0.5 Amps max.
Contact resistance: 40 mΩ max. initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Mating durability: 250 Cycles min.

Temperature Rating:

Operating temperature: -65°C to +155°C

PACKAGING:

Anti-ESD plastic trays or tubes
Tape and Reel with pick & place pad

APPLICATION & CONFIGURATION OVERVIEW

0.4mm Centerline Pitch

Series BB4-PO/SO is a custom product which was developed to offer a fixed height of 0.039mm for the male connector matched with a fixed height 0.049mm female connector to provide a total stacking height of 1.5mm.

Series BB4-PE/SE offers a fixed height 1.25mm male connector which is matched with a fixed height 1.25mm female providing a total stacking height of 1.5mm.

0.5mm Centerline Pitch

Series BB5-PO/SO is a custom product which was developed to offer four different female connector heights (3.00, 3.50, 4.00, 6.00) to provide four choices of total stacking heights (4.00, 4.50, 5.00, 6.00) These sets are available in positions 10-100 (see details on drawing pages 192-193)

Series BB5-PN/SN is a custom product which was developed to offer five different heights (2.20, 2.70, 3.00, 3.20, 3.50) and a matched female connector in four different heights (3.00, 3.50, 4.00, 6.00) to provide four choices of total stacking heights (4.00, 4.50, 5.00, 6.00)

0.635mm Centerline Pitch

Series BB635-PE/SE is a custom product developed to offer a male connector in two different heights (4.00, 5.00) which is matched to a fixed height female connector (4.00) to provide a choice of two total stacking heights (5.00, 6.00).

0.8mm Centerline Pitch

Series BB8-PO/SO is a custom product which was developed to offer a fixed height (3.55mm) male connector which can be matched to four different female connector heights (3.55, 5.05, 5.45, 6.05) to provide four choices of total stacking heights (4.60, 6.00, 6.50, 7.00).

Series BB8-PN/SN is a custom product which was developed to offer a male connector in two different heights (3.55, 4.05) which can be matched to five different female connector heights (3.65, 4.15, 4.70, 5.15, 5.65) to provide eight choices of total stacking heights (4.50, 5.00, 5.15, 5.65, 6.00, 6.15, 6.50, 7.00)

1.00mm Centerline Pitch

Series BB10-PO/SO is a custom product which was developed to offer a male connector in three different heights (6.35, 7.35, 8.35) which can be matched to four different female connector heights (5.37, 7.37, 8.37, 10.37) to provide eight choices of total stacking heights (8.00, 9.00, 10.00, 11.00, 12.00, 13.00, 14.00, 15.00) used.



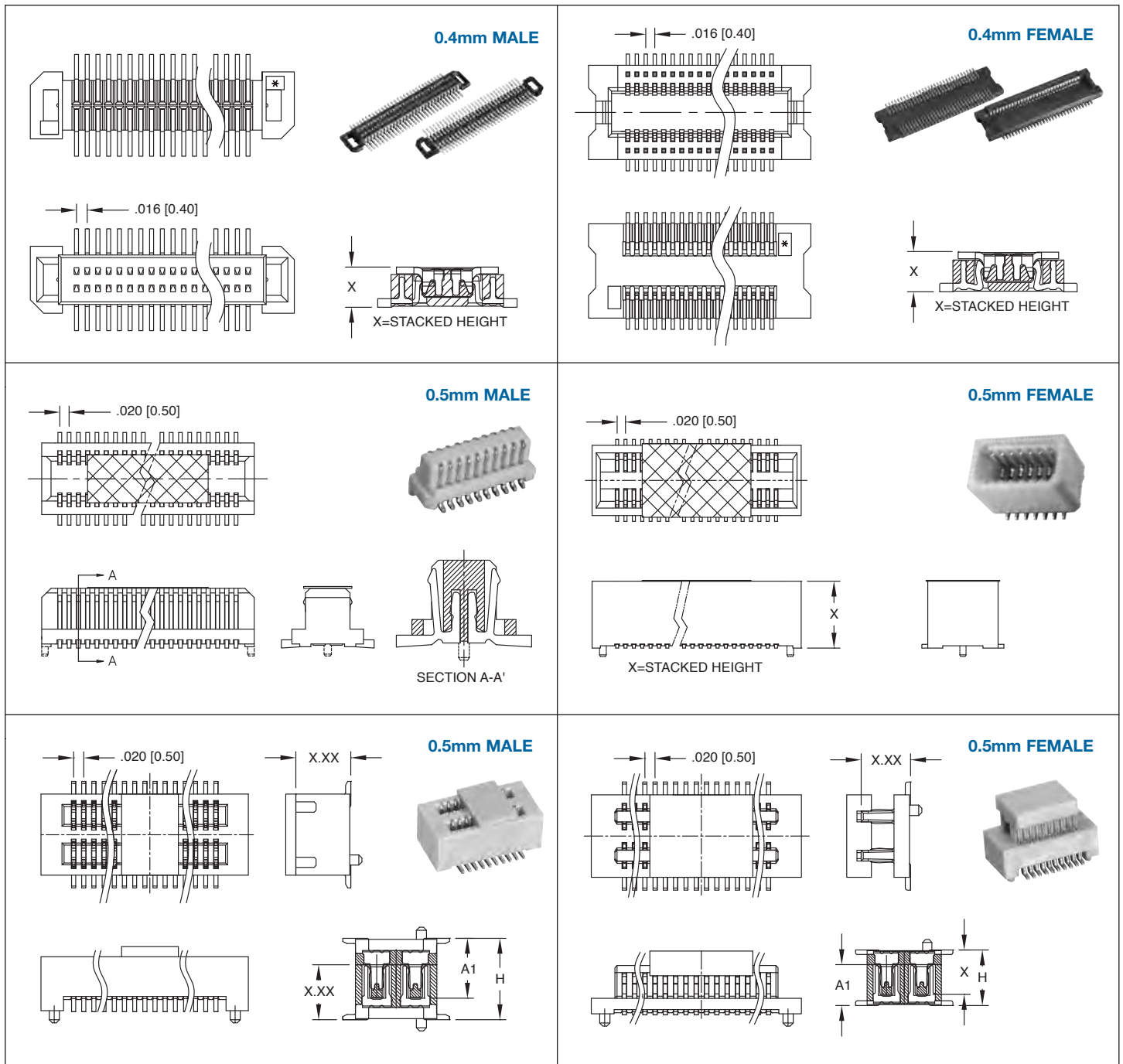
INTRODUCTION:

Adam Tech manufactures a range of application specific board stacking connectors which were designed and built to specific customer requirements.

Our experienced engineering staff has developed custom products in a variety of contact styles, pitches and stacking heights. Our designs range from new concepts to duplicating existing market products identically or with improvements. Many designs are produced using automated manufacturing processes to increase reliability and provide significant ongoing cost savings.

FEATURES:

- Multiple board stacking heights
- Broad range of pin counts
- Locating peg versions
- Hi-Temp material
- High reliability precision formed contacts



<p>0.635mm MALE</p> <p>X=STACKED HEIGHT</p>	<p>0.635mm FEMALE</p> <p>X=STACKED HEIGHT</p>
<p>0.8mm MALE</p> <p>X=STACKED HEIGHT</p>	<p>0.8mm FEMALE</p> <p>X=STACKED HEIGHT</p>
<p>0.8mm MALE</p> <p>X=STACKED HEIGHT</p>	<p>0.8mm FEMALE</p> <p>X=STACKED HEIGHT</p> <p>Mating Drawing (Ref)</p>
<p>1.00mm MALE</p> <p>X=STACKED HEIGHT</p>	<p>1.00mm FEMALE</p> <p>X=STACKED HEIGHT</p>

INTRODUCTION:

Adam Tech RCA Series RCA jacks are a popular choice for audio and visual output in electronic equipment applications. Adam Tech offers a multitude of RCA jacks intended to satisfy most audio and visual applications. This series offers choices of panel, PCB, and chassis mounting in single, dual, stacked and color coded versions with a number of shell plating options. Adam Tech RCA jacks are precision engineered to provide intermatability and balance to a broad range of industry standard plugs. Manufactured with high quality UL94V-0 ABS these jacks are an excellent choice for most audio and visual applications.

FEATURES:

- Wide range of colors
- Multiple port versions
- Various body styles
- Industry Standard compatibility

MATING PLUGS:

All industry standard RCA plugs.

SPECIFICATIONS:

Material:

Standard insulator: ABS or PBT glass filled, rated UL94-HB
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
 Insulator Colors: Red, Black, Yellow, White
 Bushing: Brass, Nickel plated, (Gold optional)
 Contacts: Brass

Contact Plating:

Tin or Silver over Copper underplate

Electrical:

Operating voltage: 12V DC max.
 Current rating: 1 Amp max.
 Contact resistance: 30 mΩ max. initial
 Insulation resistance: 100 MΩ min.
 Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 6.6 lbs max.
 Withdrawal force: 1.7 lbs min
 Mating durability: 5000 cycles min.

Temperature Rating:

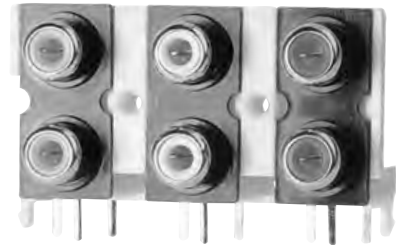
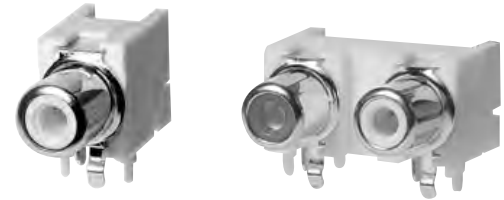
Operating temperature: -25°C to +85°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

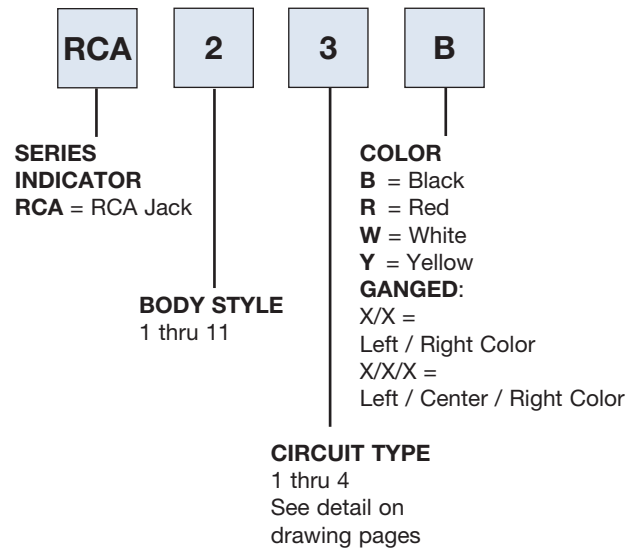
Anti-ESD plastic bags

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION



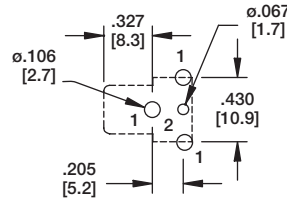
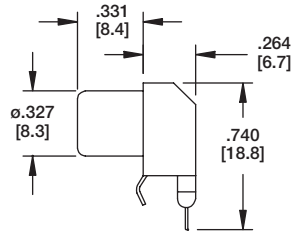
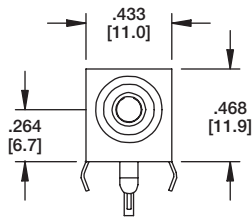
OPTIONS:

Add designator(s) to end of part number

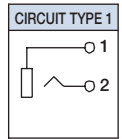
G = Gold plated barrels

HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

RCA-1



Recommended PCB Layout

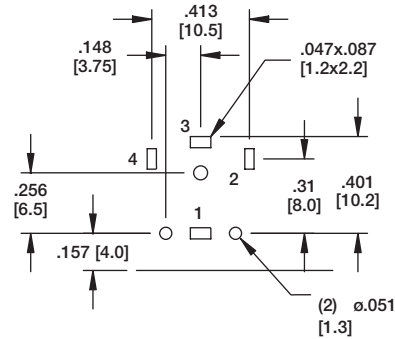
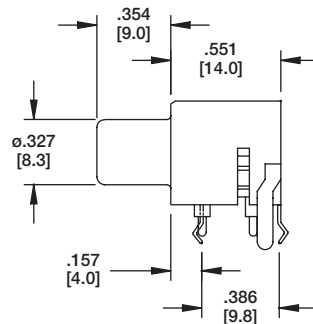
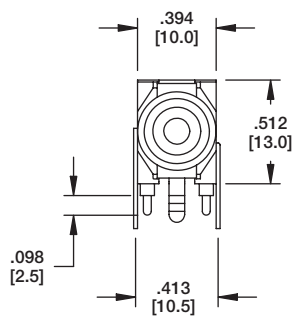


CIRCUIT

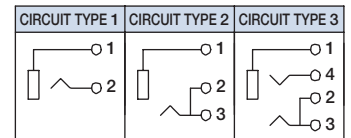


RCA-1-1-Y

RCA-2



Recommended PCB Layout

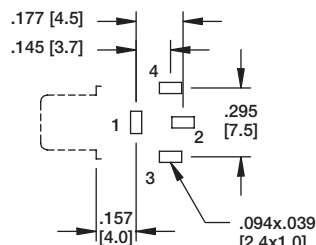
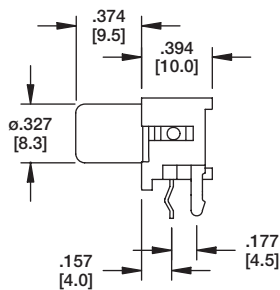
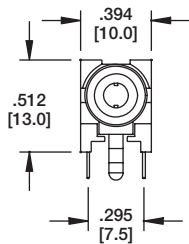


CIRCUIT

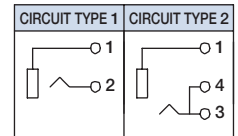


RCA-2-2-Y

RCA-3



Recommended PCB Layout

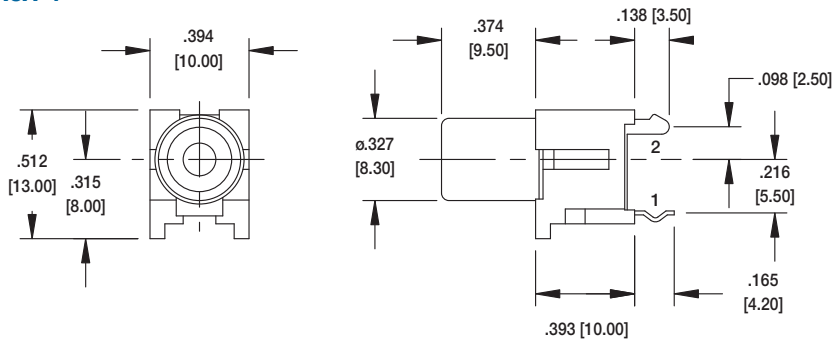


CIRCUIT



RCA-3-1-R

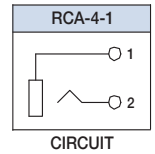
RCA-4



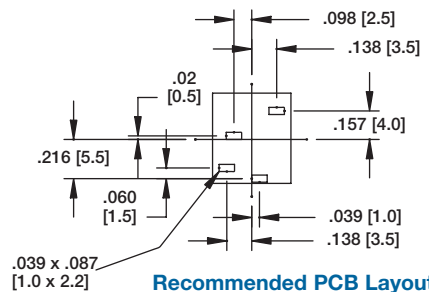
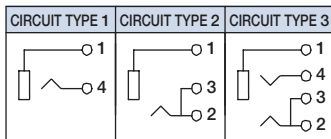
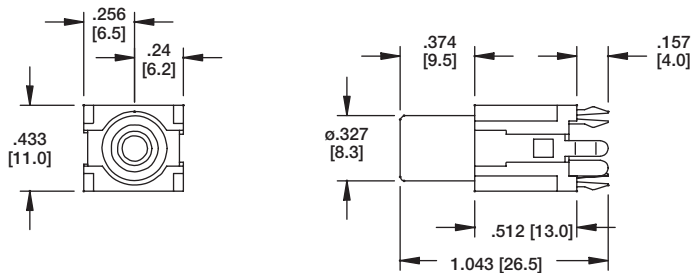
Recommended PCB Layout
(Bottom View)



RCA-4-1-B



RCA-5

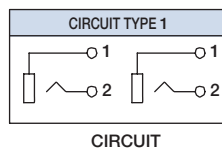
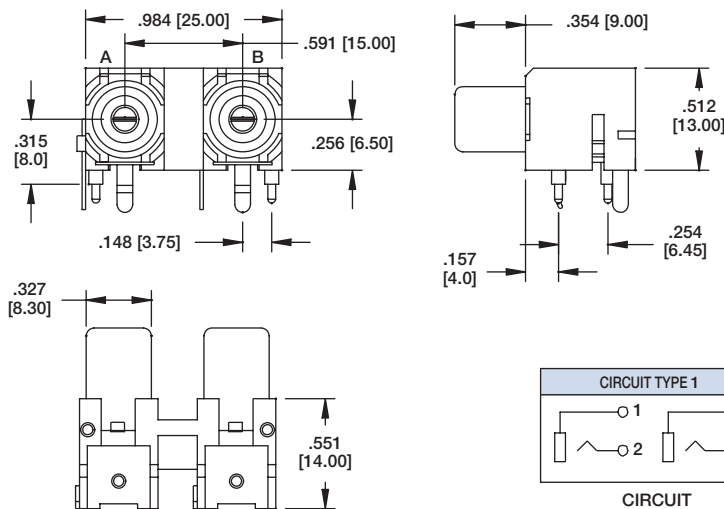


Recommended PCB Layout
(Bottom View)

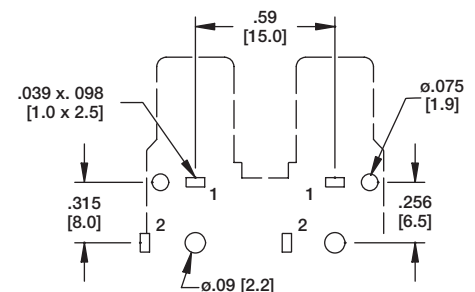


RCA-5-2-R

RCA-6

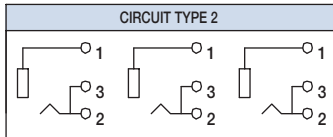
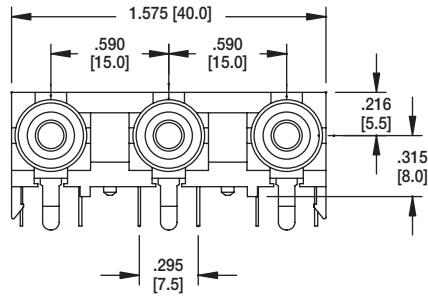


RCA-6-1-R/Y

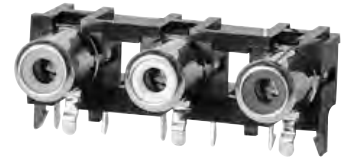
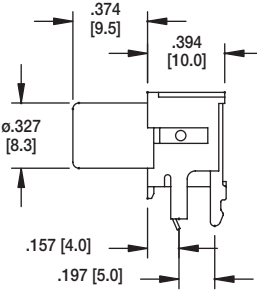


Recommended PCB Layout
(Bottom View)

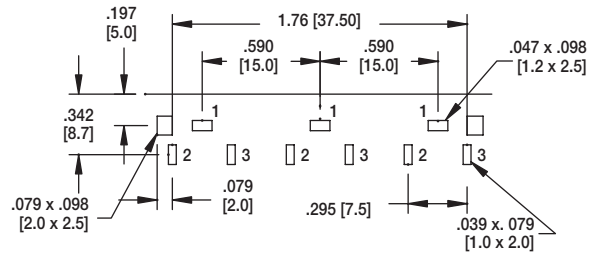
RCA-7



CIRCUIT

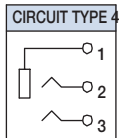
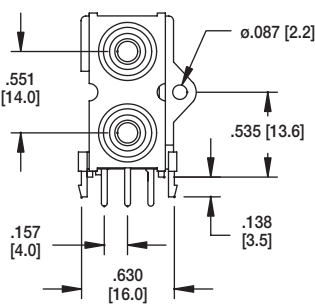


RCA-7-2-Y/W/R

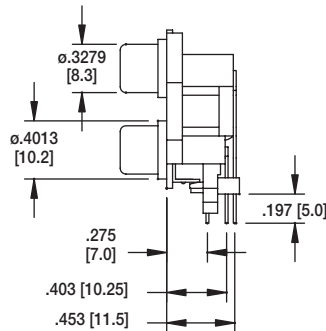


Recommended PCB Layout (Bottom View)

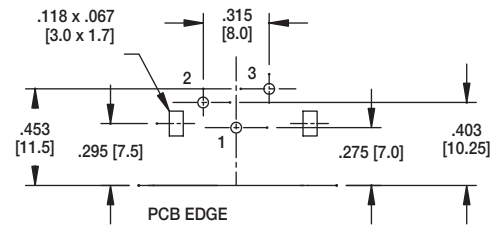
RCA-8



CIRCUIT

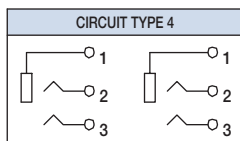
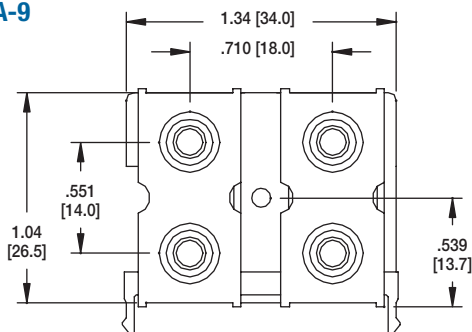


RCA-8-4-W/Y

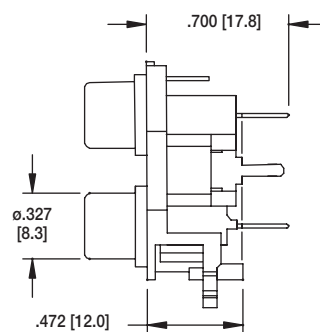


Recommended PCB Layout (Bottom View)

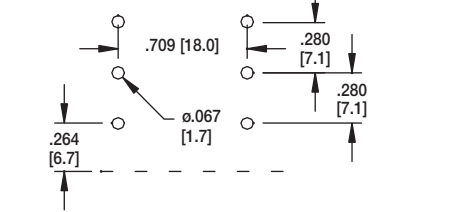
RCA-9



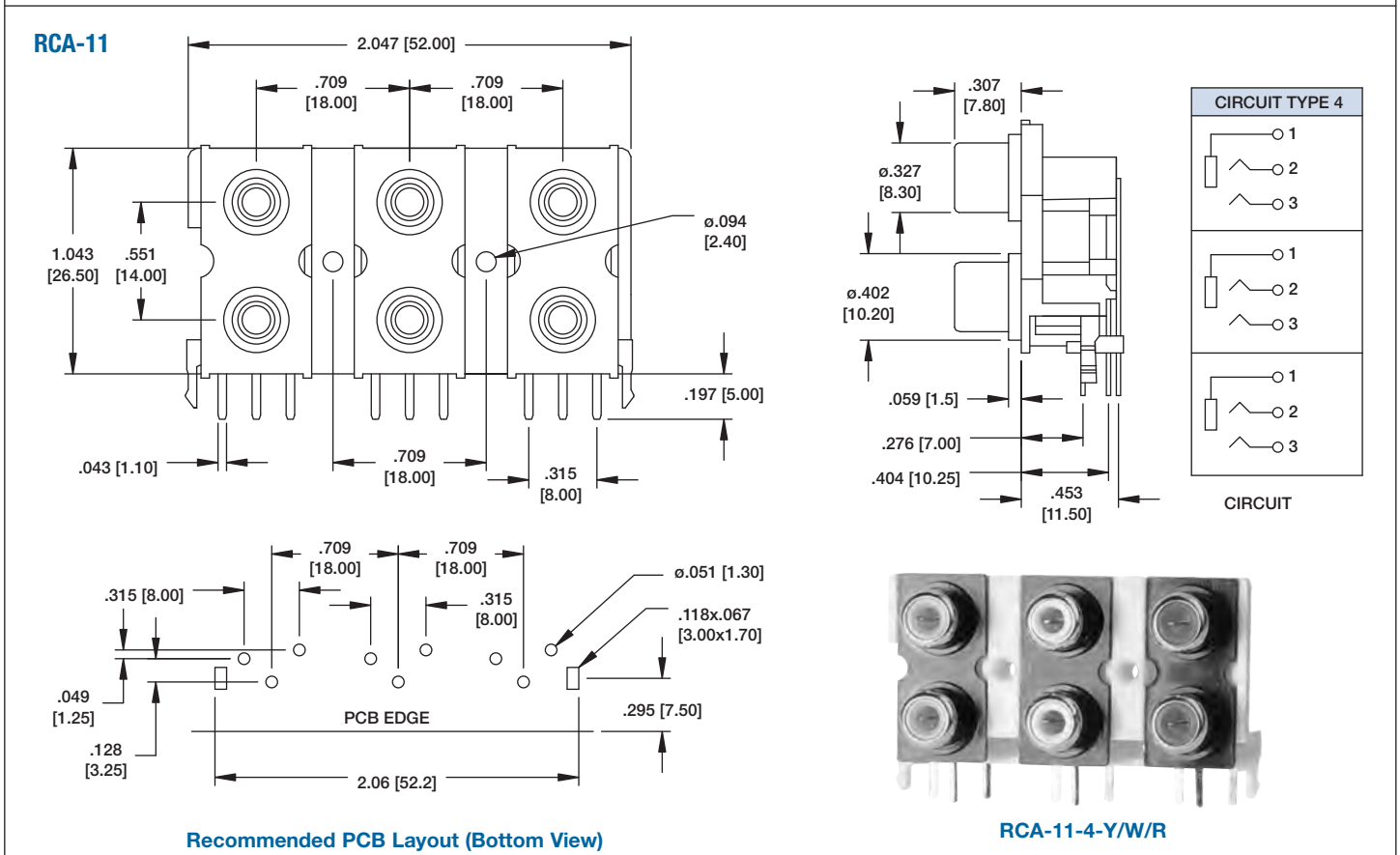
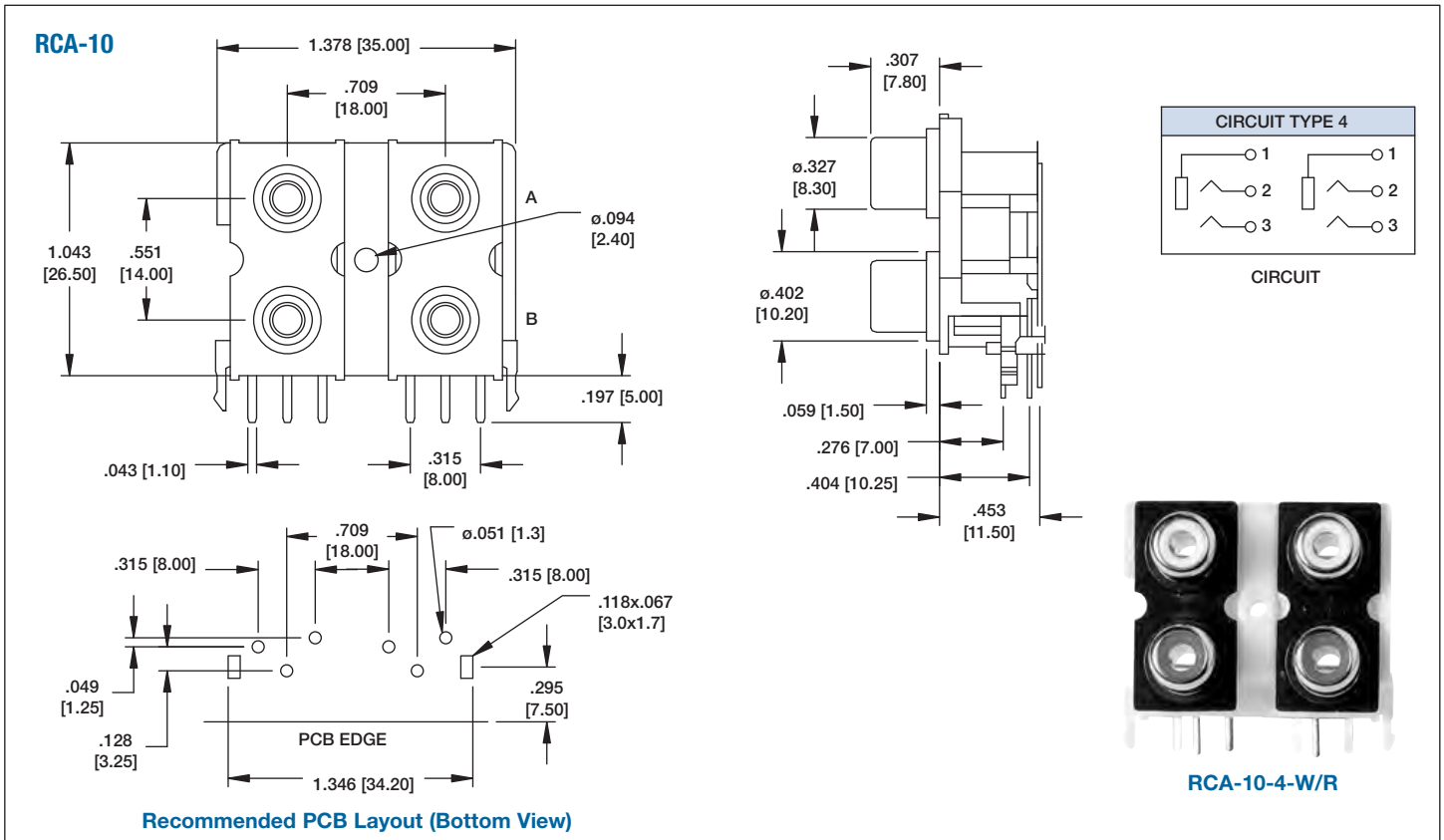
CIRCUIT



RCA-9-4-Y/R



Recommended PCB Layout (Bottom View)



INTRODUCTION:

Adam Tech DJ Series Circular DIN Jacks continue to be a popular interface for many applications. They are especially suitable for applications that require reliable transfer of low level signals. Available in a wide selection of positions they feature a choice of an all plastic body or a plastic body with metal face shield. Mounting selections include Right Angle or Vertical PCB mount and Panel Mount with or without mounting flange. Adam Tech DJ series jacks features an exclusive high reliability contact design which utilizes a dual wipe, extended fork contact. The jacks overall contact area is increased primarily in the mating area which helps maintain a constant contact pressure for superior electrical performance.

FEATURES:

- Wide range of styles
- Offered in 3 thru 13 positions
- Standard and shielded versions available
- Excellent for Low Level signal applications

MATING PLUGS:

All industry standard circular DIN plugs.

SPECIFICATIONS:

Material:

- Standard insulator: PBT glass filled, rated UL94V-0
- Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
- Insulator Color: Black
- Contacts: Brass
- Shield: Copper Alloy, Bright Nickel plated

Contact Plating:

Tin over Copper underplate overall

Electrical:

- Operating voltage: 20V DC max.
- Current rating: 2 Amps max
- Contact resistance: 20 mΩ max. initial
- Insulation resistance: 500 MΩ min.
- Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

- Insertion force: 15 lb max.
- Withdrawal force: 0.8 lb min
- Mating durability: 5000 cycles min.

Temperature Rating:

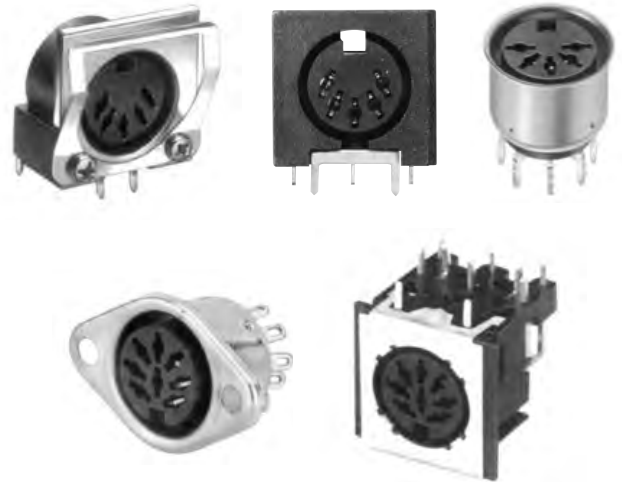
- Operating temperature: -55°C to +85°C
- Soldering process temperature:
 - Standard insulator: 235°C
 - Hi-Temp insulator: 260°C

PACKAGING:

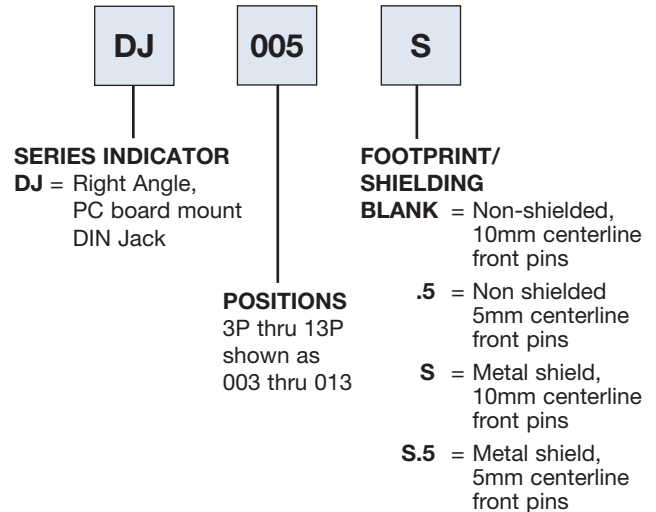
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

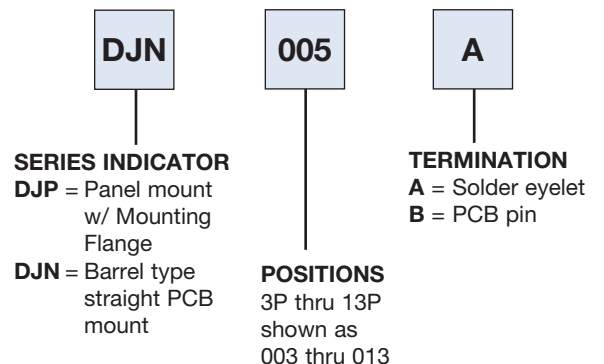
UL Recognized File no. E224053



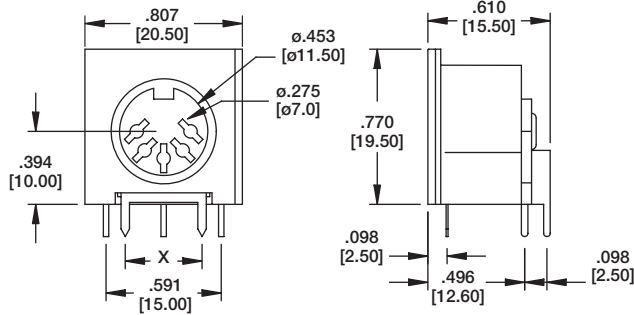
**ORDERING INFORMATION
RIGHT ANGLE PC BOARD MOUNT**



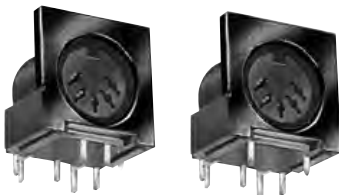
**STRAIGHT PC BOARD MOUNT
AND PANEL MOUNT VERSIONS**



DIN JACK NON-SHIELDED 5 POSITION

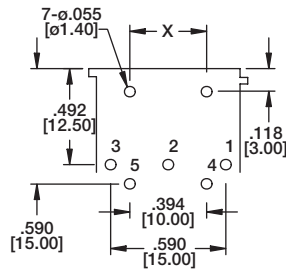


X = PITCH $.197$ [5.00] OR $.394$ [10.00]

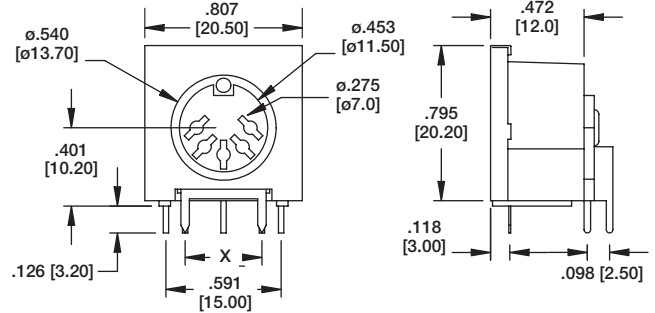


DJ-005-.5

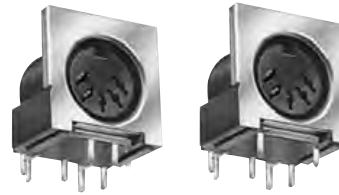
DJ-005



DIN JACK SHIELDED 5 POSITION

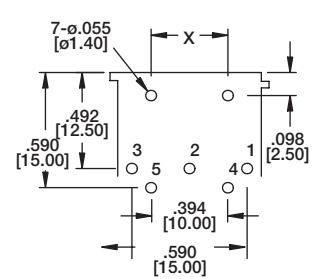


X = PITCH $.197$ [5.00] OR $.394$ [10.00]

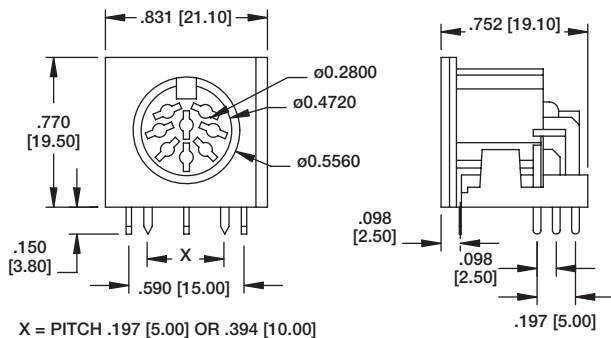


DJ-005-S.5

DJ-005-S



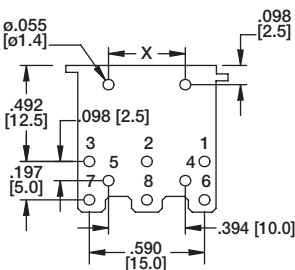
DIN JACKS NON-SHIELDED, POSITIONS: 3P, 4P, 6P, 7P, 8P



X = PITCH $.197$ [5.00] OR $.394$ [10.00]

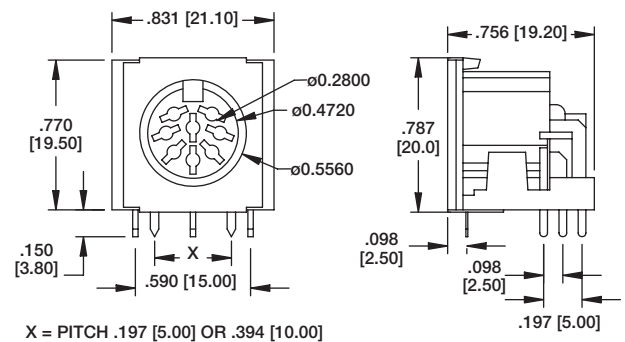


DJ-008



Recommended PCB Layout

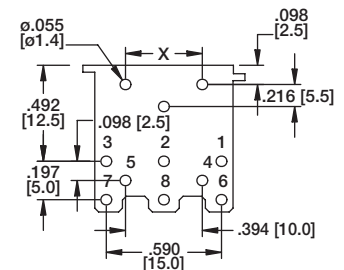
DIN JACK SHIELDED, POSITIONS: 3P, 4P, 6P, 7P, 8P



X = PITCH $.197$ [5.00] OR $.394$ [10.00]

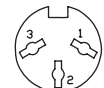


DJ-008-S



Recommended PCB Layout

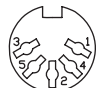
MATING FACE CONFIGURATIONS



3 Position



4 Position



5 Position



6 Position



7 Position



8 Position

DJP SERIES
PANEL MOUNT DIN JACK WITH
SOLDER EYELETS

DJP-008-A

DJP SERIES
PCB MOUNT DIN JACK

DJP-008-B

DJN SERIES
PCB MOUNT DIN JACK

DJN-005-B

<p>3 Position</p>	<p>4 Position</p>
<p>5 Position</p>	<p>6 Position</p>
<p>7 Position</p>	<p>8 Position</p>

DJN Series (Type A)

DJP Series

Recommended PCB Layouts

INTRODUCTION:

Adam Tech MDJ Series Mini DIN Jacks continue to be a popular, high density, low cost, low profile interconnect solution. Available in a multitude of styles and configurations, they are able to satisfy a broad range of applications. This series offers jacks in 3 thru 9 positions with straight, right angle or panel mounting and offers choice of four different shielding and panel grounding options. Color-coded jacks for port identification are also available. Adam Tech's special contact design offers a high reliability connection with extremely low contact resistance.

FEATURES:

Wide Range of Styles
Right Angle, Straight and Panel Mount types
Shielding Options for EMI/RFI suppression
Color-Coded versions

MATING PLUGS:

All industry standard circular Mini DIN plugs.

SPECIFICATIONS:

Material:

Standard insulator: PBT glass filled, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black standard, custom colors available
Contacts: Phosphor Bronze
Shield: Copper Alloy, Tin Plated

Contact Plating:

Gold over Nickel underplate on contact area, tin over Copper underplate on tails

Electrical:

Operating voltage: 100V AC / 12V DC max.
Current rating: 1 Amp max. / 2 Amps max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 9.9 lbs max.
Withdrawal force: 0.8 lbs min
Mating durability: 5000 cycles min.

Temperature Rating:

Operating temperature: -55°C to +105°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays

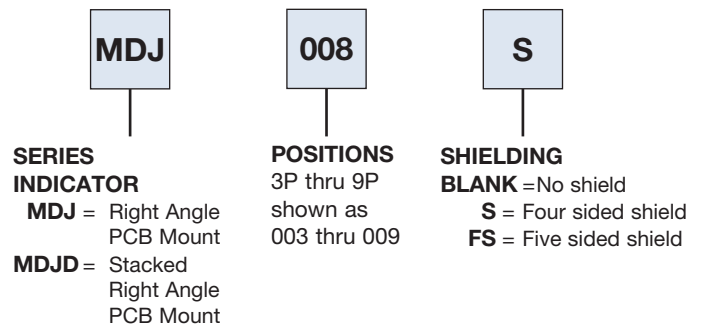
APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053

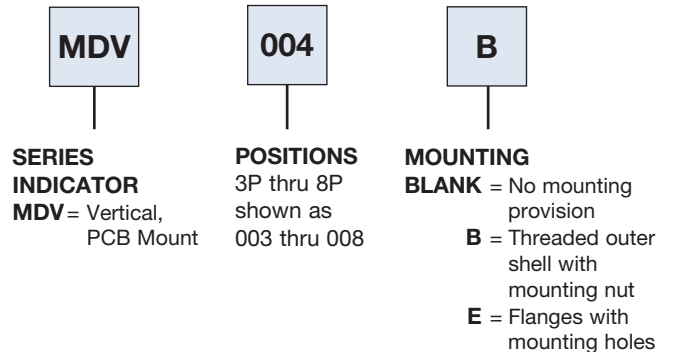


ORDERING INFORMATION

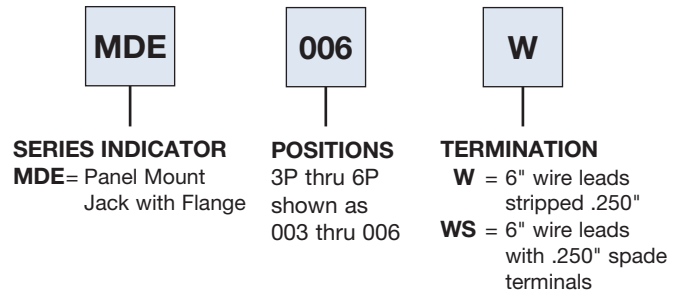
RIGHT ANGLE MOUNT



VERTICAL MOUNT



PANEL MOUNT



OPTIONS:

Add designator(s) to end of part number

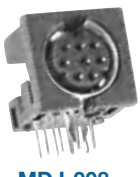
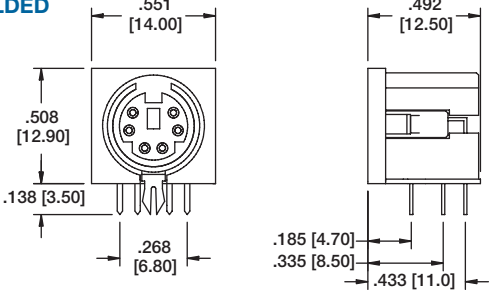
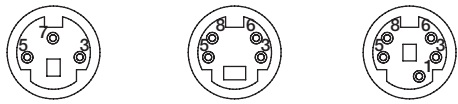
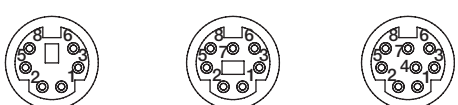


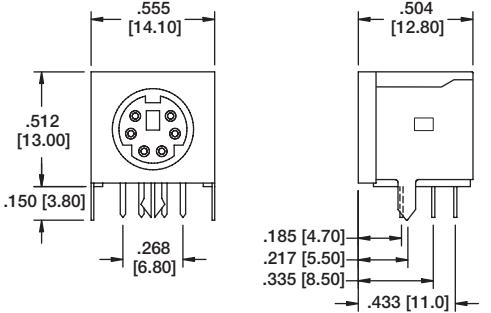


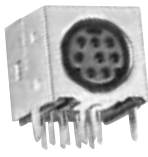
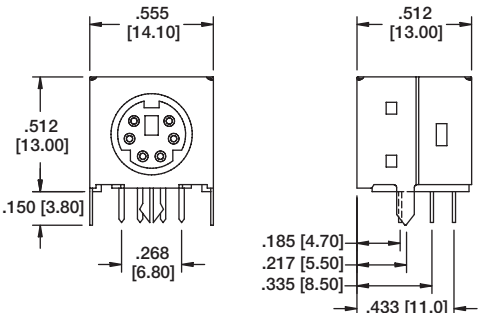
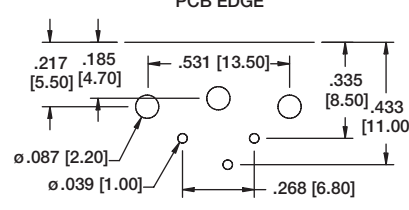
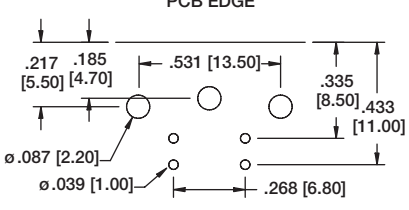
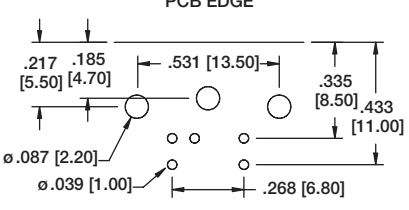
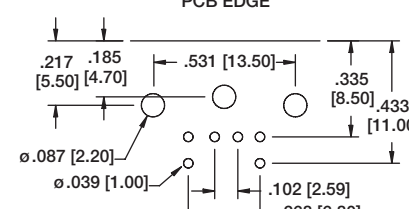
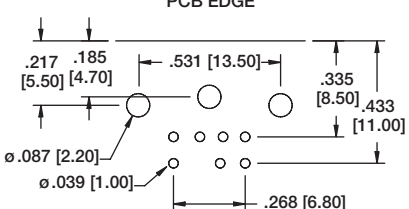
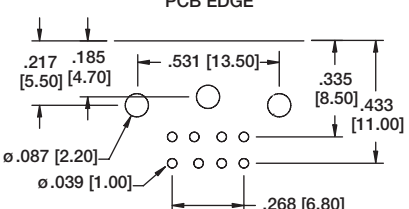
RT = PC board retention feature. On shielded units, crimped shield legs. On non-shielded units, forked grounding pin.

PG = Spring panel ground

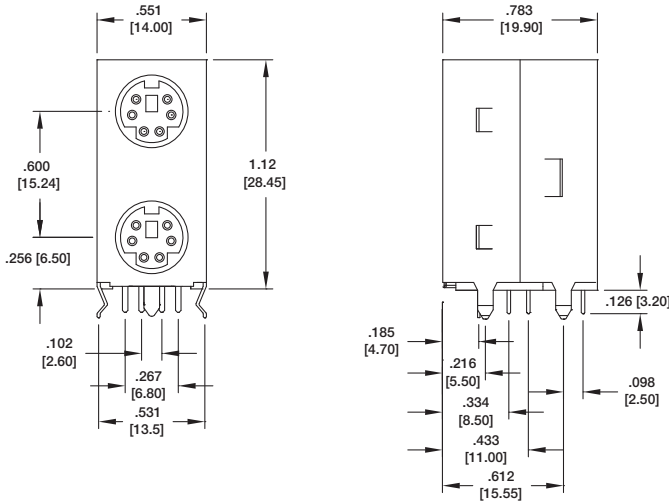
PG4 = Four finger panel ground

HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

TGBP = Top port color Green / Bottom port color Purple

<p>MDJ SERIES MINI DIN JACK-UNSHIELDED</p>  <p>MDJ-008</p> 	<p>MATING FACE CONFIGURATIONS</p> <p>3 Position 4 Position 5 Position</p>  <p>6 Position 7 Position 8 Position</p>  <p>9 Position 9A Position</p> 	
<p>MDJ SERIES MINI DIN JACK WITH FOUR SIDED SHIELD</p>  <p>MDJ-009-S</p> 	<p>PANEL GROUND OPTIONS</p>  <p>MDJ-009-FS-PG Spring Panel Ground</p>  <p>MDJ-008-FS-PG4 Four Finger Panel Ground</p>	
<p>MDJ SERIES MINI DIN JACK FULLY SHIELDED</p>  <p>MDJ-008-FS</p> 		
<p>PCB EDGE</p>  <p>3 Position</p>	<p>PCB EDGE</p>  <p>4 Position</p>	<p>PCB EDGE</p>  <p>5 Position</p>
<p>PCB EDGE</p>  <p>6 Position</p>	<p>PCB EDGE</p>  <p>7 Position</p>	<p>PCB EDGE</p>  <p>8 Position</p>

**MDJD SERIES
STACKED
MINI DIN JACK
FULLY SHIELDED**



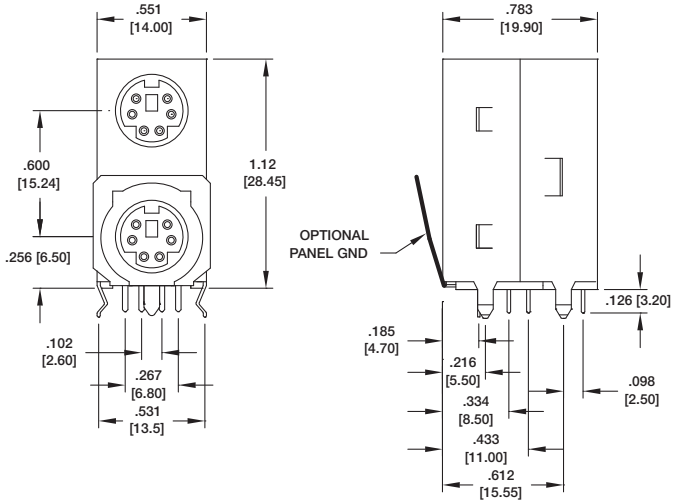
6 POSITION



4 POSITION



MDJD-006-FS-RT



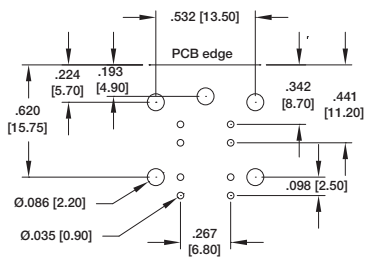
6 POSITION



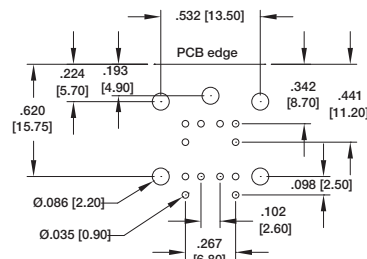
4 POSITION



MDJD-006-FS-RT-PG



4 Position



6 Position

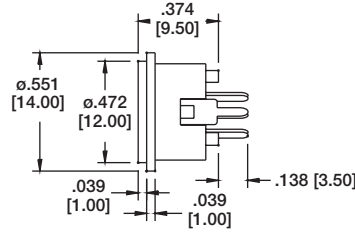
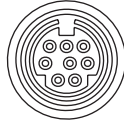
Recommended PCB Layout

MDV SERIES

VERTICAL MINI DIN JACK



MDV-008

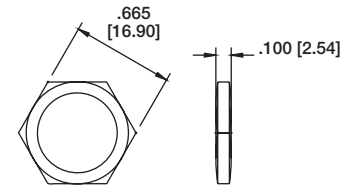
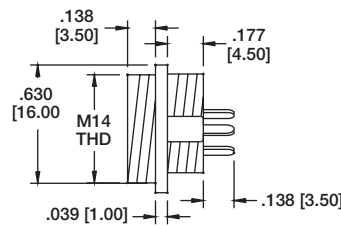
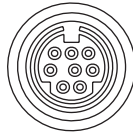


MDV SERIES

VERTICAL MINI DIN JACK WITH THREADED SHELL



MDV-005-B



MATING FACE CONFIGURATIONS

3 POSITION



4 POSITION



5 POSITION



6 POSITION



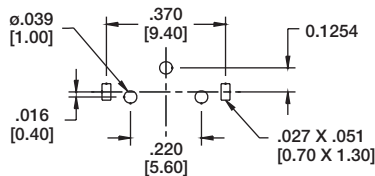
7 POSITION



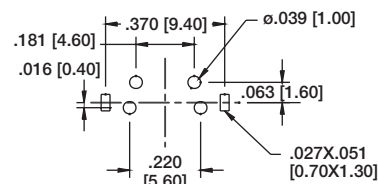
8 POSITION



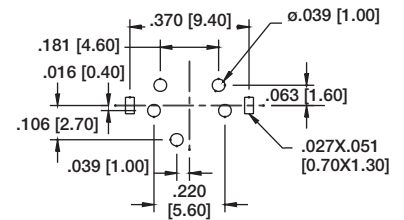
Recommended PCB Layouts



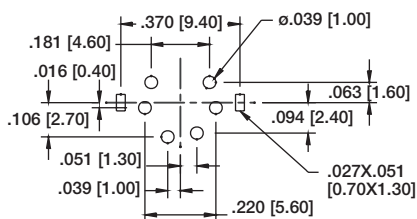
3 Position



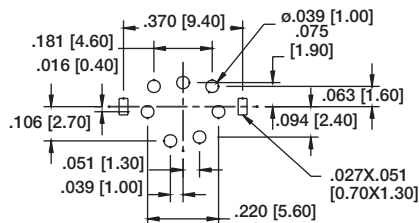
4 Position



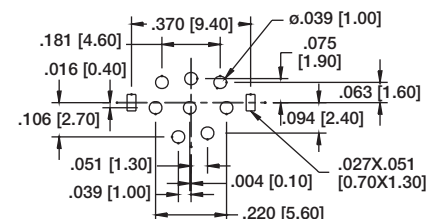
5 Position



6 Position

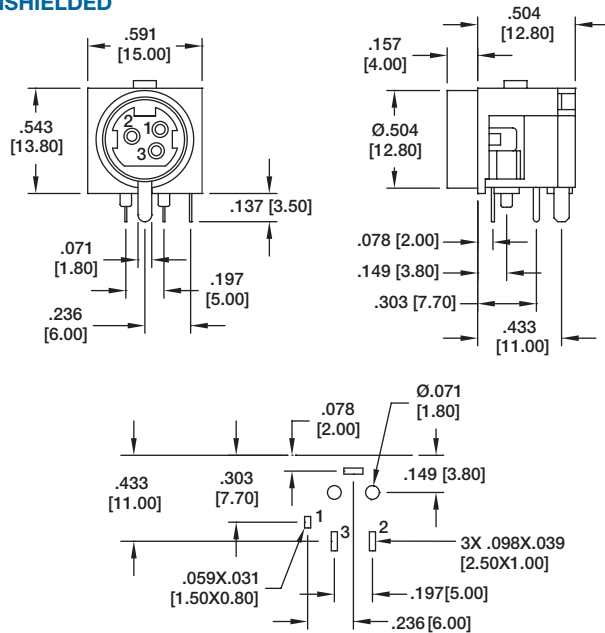


7 Position



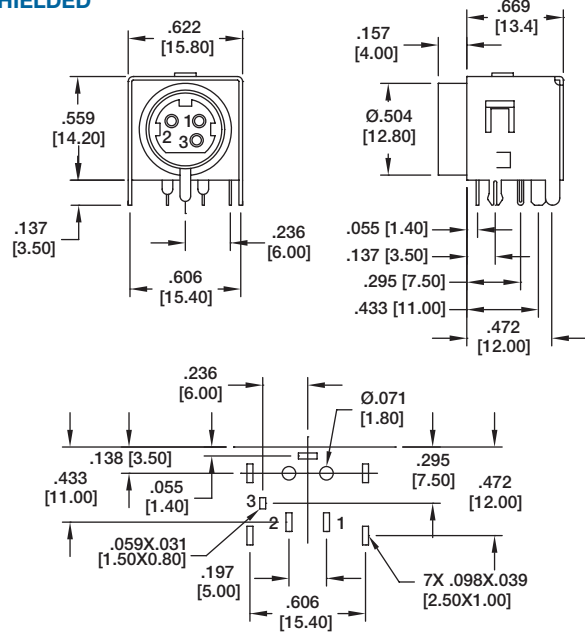
8 Position

MPJ-3P UNSHIELDED



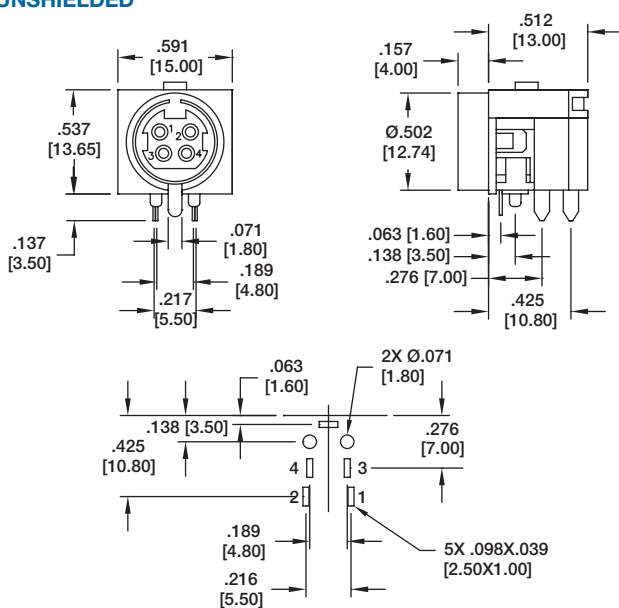
Recommended PCB Layout (Top View)

MPJ-3P-S SHIELDED



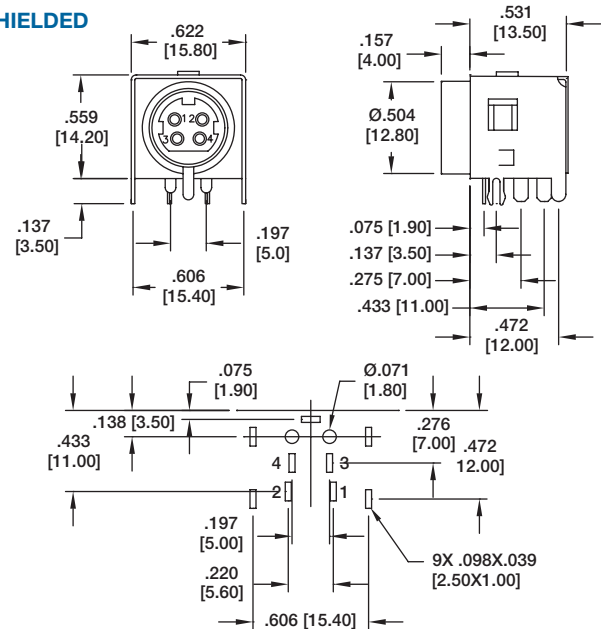
Recommended PCB Layout (Top View)

MPJ-4P UNSHIELDED



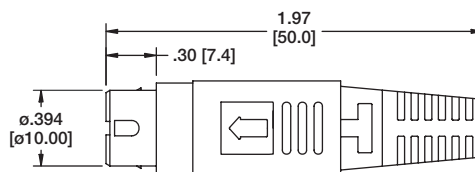
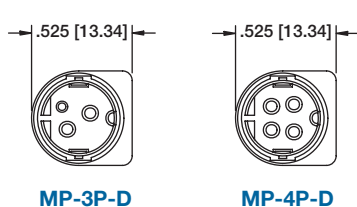
Recommended PCB Layout (Top View)

MPJ-4P-S SHIELDED



Recommended PCB Layout (Top View)

MP SERIES POWER PLUG



INTRODUCTION:

Adam Tech DP and MDP series male and female DIN and Mini DIN plugs are offered in an assembly version which contains a fitted two-piece snap-together metal shell with a slide over boot which surrounds the center contact pad or a molded version which has a one piece metal shell permanently attached to the contact pad which is used in over-molded cable production. Their simple yet extremely sturdy design make them perfect for most applications.

FEATURES:

DIN and Mini DIN styles
Easy two-piece metal shell assembly
Over-mold or assembly versions

MATING CONNECTORS:

All industry standard circular Mini DIN and DIN jacks.

SPECIFICATIONS:

Material:

Insulator: PBT glass filled, rated UL94V-0
Insulator Color: Black standard, custom colors available
Contacts: Brass
Shield: Copper Alloy, Tin Plated

Contact Plating:

Nickel on mating area, Tin over Copper underplate on solder area.

Electrical:

Operating voltage: 100V AC / 12V DC max.
Current rating: Mini Din: 1 Amp max.
Din: 2 Amps max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 9.9 lbs max.
Withdrawal force: 0.8 lbs min
Mating durability: 5000 cycles min.

Temperature Rating:

Operating temperature: -25°C to +70°C

PACKAGING:

Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION

MDP

008

SERIES INDICATOR

DP = Male DIN Plug
DS = Female DIN Plug
MDP = Male Mini DIN Plug
MDS = Female Mini DIN Plug

NO. OF POSITIONS

003 thru 008 (DP/DS)
003 thru 009 (MDP/MDS)



OPTIONS:

Add designator(s) to end of part number
G = Gold plated contacts
M = Single piece barrel and contact pad without plastic shell for molding applications

<p>DP SERIES DIN PLUG</p> <p>003 004 005 006 007 008</p>	<p>DP-008</p>
<p>DS SERIES DIN SOCKET</p> <p>003 004 005 006 007 008</p>	<p>DS-008</p>
<p>MDP SERIES MINI DIN PLUG</p> <p>MDP-006</p>	<p>MDP-006</p>
<p>MDS SERIES MINI DIN SOCKET</p> <p>MDS-008</p>	<p>MDS-008</p>
<p>3 Pin 4 pin 5 pin 6 pin 7 pin 8 pin 9 pin</p>	

INTRODUCTION:

Adam Tech DNR Series DIN 41612 connectors are a versatile two piece PCB connector set with features useful for many applications including connections between plug-in card and back-panel wiring, PCB to PCB attachment and peripheral connections for external interfaces. Features include a multitude of body sizes and styles with options that include selective contact loading, make and break contacts, contact lead length choices, and contact plating variations each in .100" [2.54] or .200" [5.08] centerline spacing.

FEATURES:

Industry Standard Compatible
Multiple Body Sizes
Contact Plating Options
Make and Break contacts
.100" or .200" Centerlines

Mating Options:

Adam Tech DNR series and All industry standard DIN 41612 Connectors.

SPECIFICATIONS:

Material:

Standard insulator: PBT, glass filled, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Beige
Contacts: Brass or Phosphor Bronze

Plating:

Gold over nickel underplate on contact area
Tin over copper underplate on tails

Electrical:

Operating voltage: 500V AC max.
Current rating: 2 Amps max
Contact resistance: 30 mΩ max. initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 20 lbs / contact max.
Withdrawal force: 0.033 lbs / contact min
Mating durability: Class I: 500 cycles
Class II: 250 cycles
Class III: 100 cycles
Temperature Rating:
Operating temperature: -55°C to +125°C
Soldering process temperature:
Standard insulator: 235°C
Hi-Temp insulator: 260°C

PACKAGING:

Anti-ESD plastic trays or tubes

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION

DIN

SERIES INDICATOR

DIN = DIN 41612 Connector

96

NO. OF CONTACTS

Short body 2 rows: 16, 32
Short body 3 rows: 16, 32, 48
Long body 2 rows: 32, 64
Long body 3 rows: 32, 64, 96
Long body 4 rows: 100, 128, 160, 200, 240

M

GENDER

M = Male, Pin Contacts
F = Female, Socket Contacts

R

MOUNTING ANGLE

S = Straight, PCB mount
R = Right Angle, PCB mount

L33

BODY TYPE

S22 = Short body, 2 rows
A & B Loaded
S32 = Short body, 3 rows
A & C Loaded
S33 = Short body, 3 rows
A, B & C Loaded
L22 = Long body, 2 rows
A & B Loaded
L32 = Long body, 3 rows
A & C Loaded
L33 = Long body, 3 rows
A, B & C Loaded
L44 = Long body, 4 rows
A, B, C & D Loaded

A

PITCH

A = .100" [2.54 mm]
B = .200" [5.08 mm]

1

SOLDER TAIL LENGTH

1 = Standard solder tail length .157"
2 = Wire wrap .511" Solder tail (straight female only)

OPTIONS:

Add designator(s) to end of part number

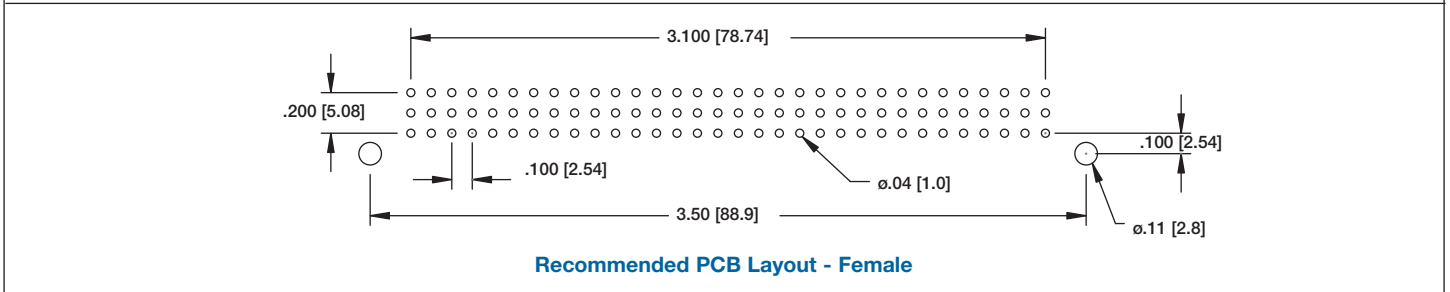
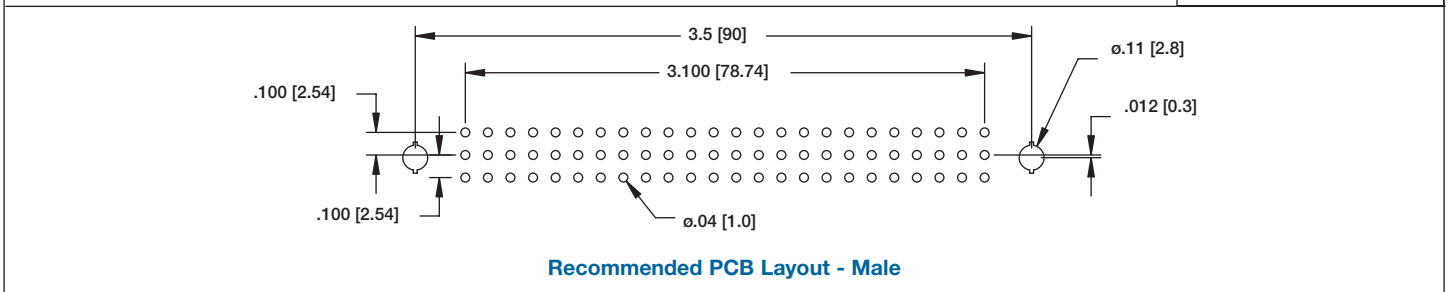
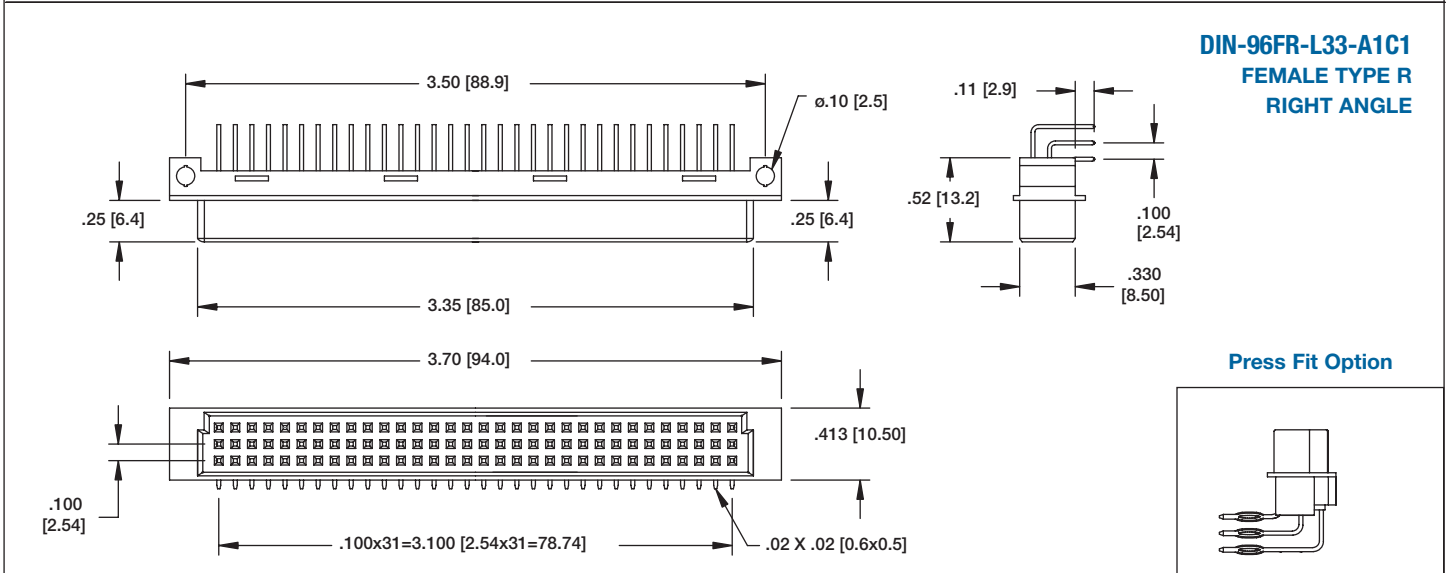
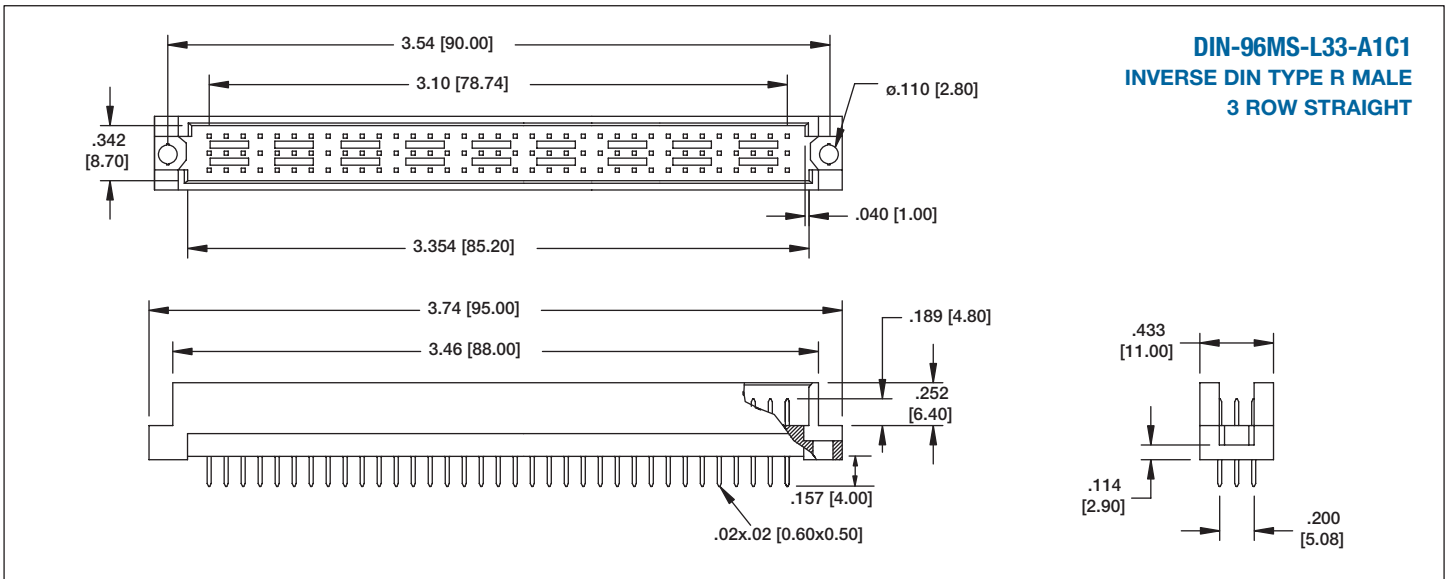
PF = Press Fit Tails (pg 241)

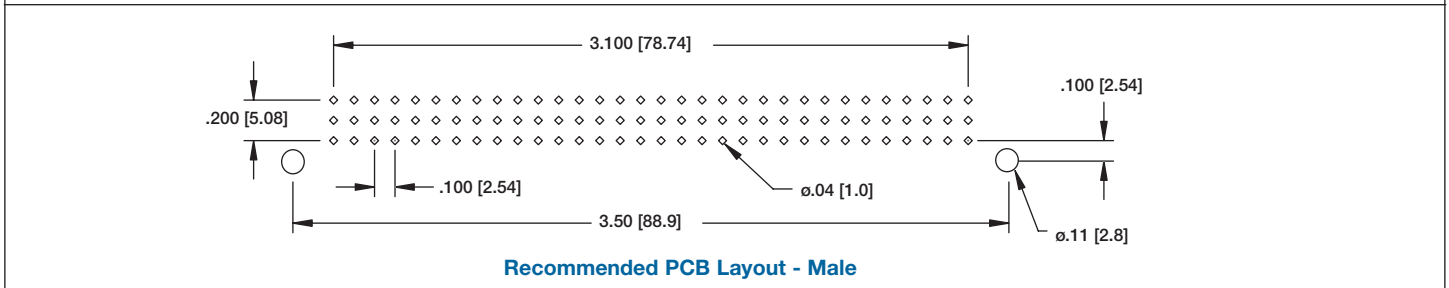
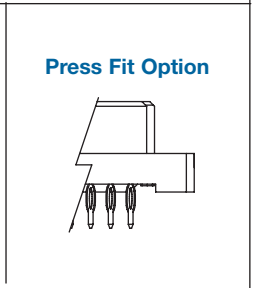
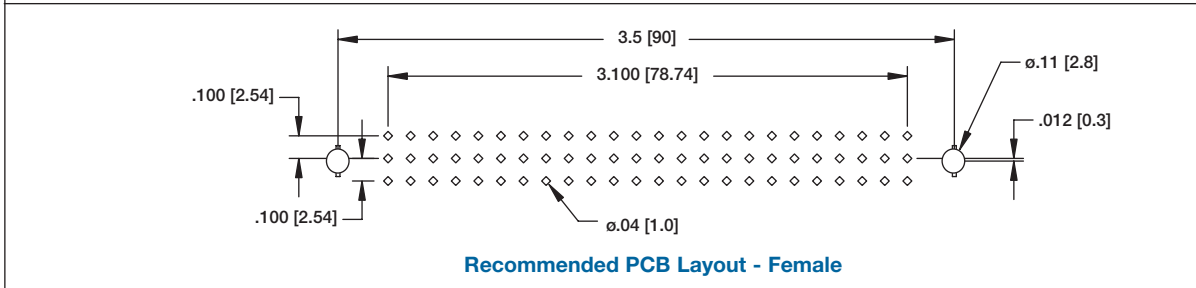
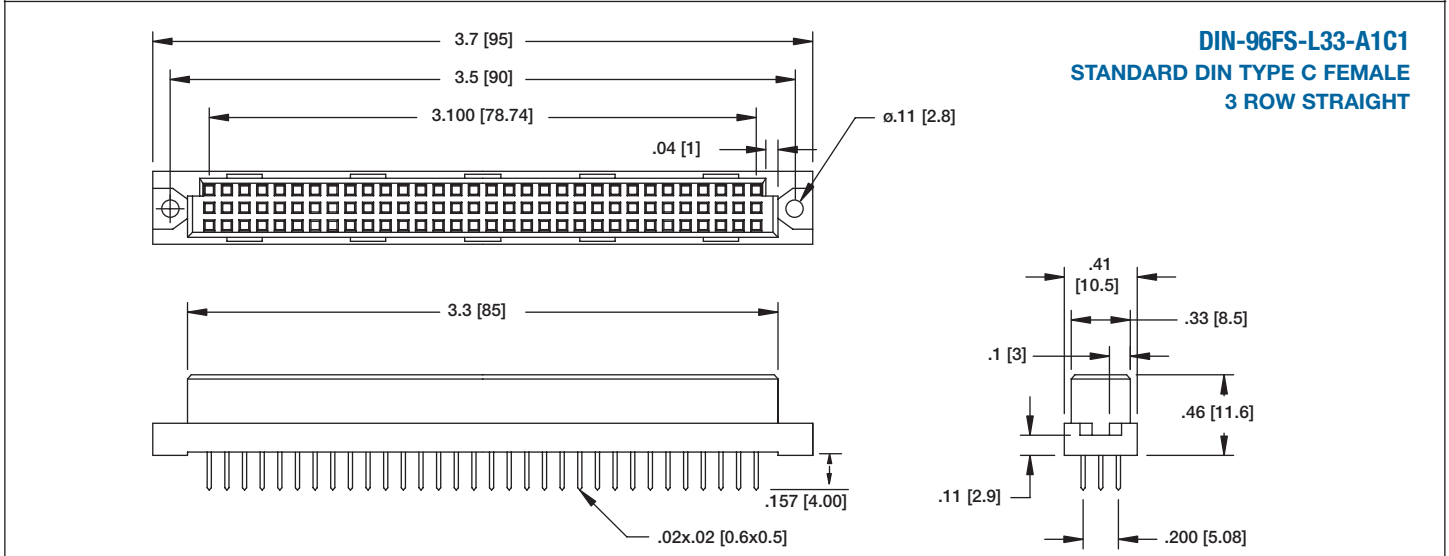
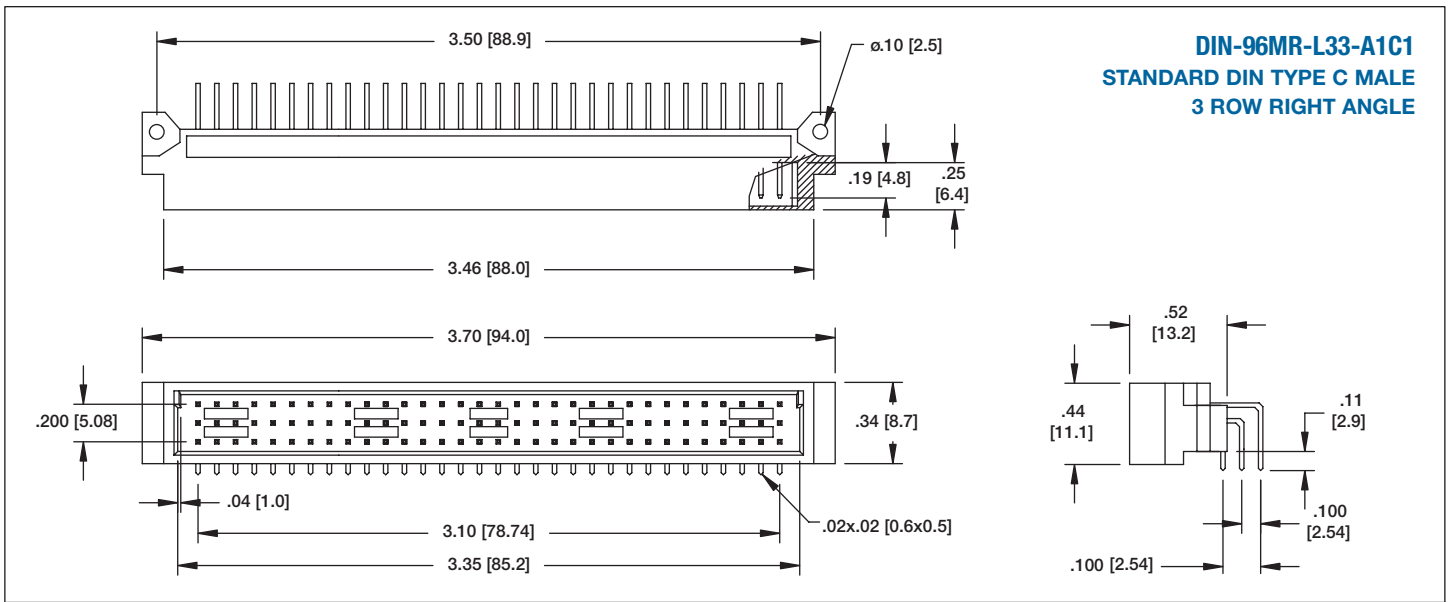
HT = Hi-Temp insulator 260°C max.

BL = Metal board locks in mounting holes

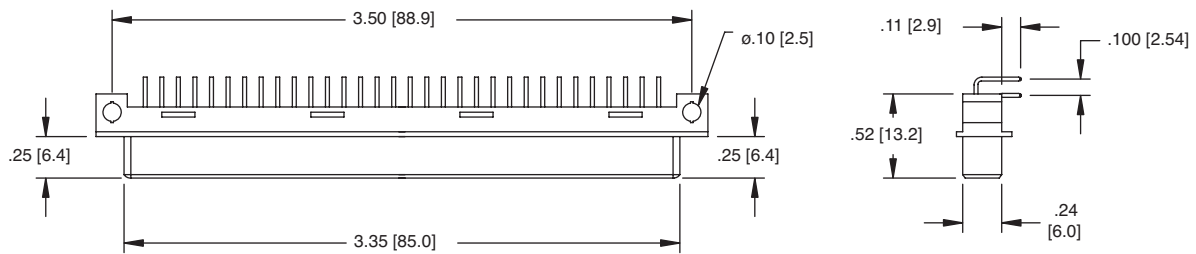
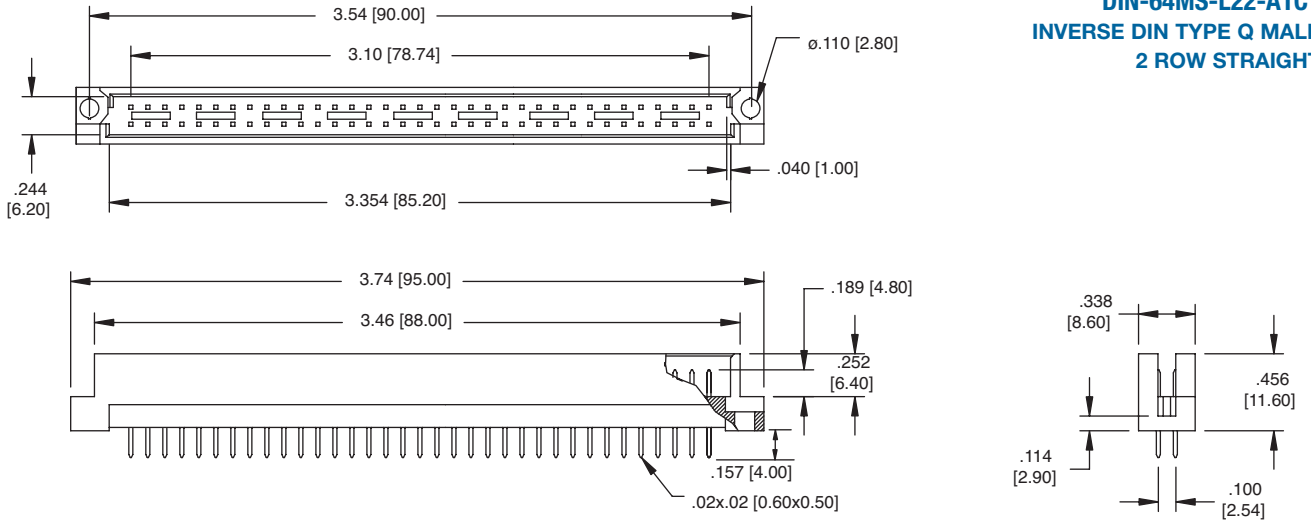
C1 = 30u" Gold over nickel underplate

C2 = 15u" gold over nickel underplate

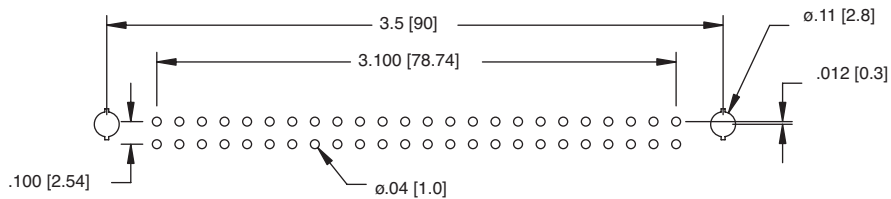
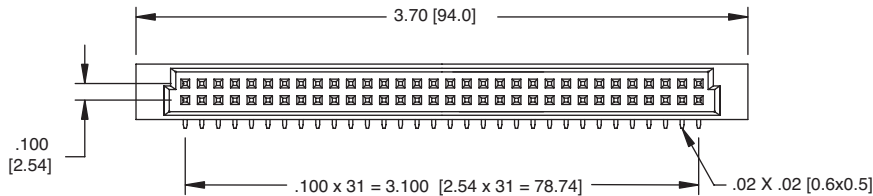




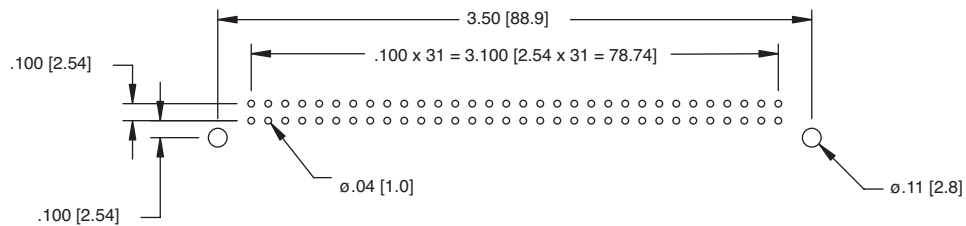
DIN-64MS-L22-A1C1
INVERSE DIN TYPE Q MALE
2 ROW STRAIGHT



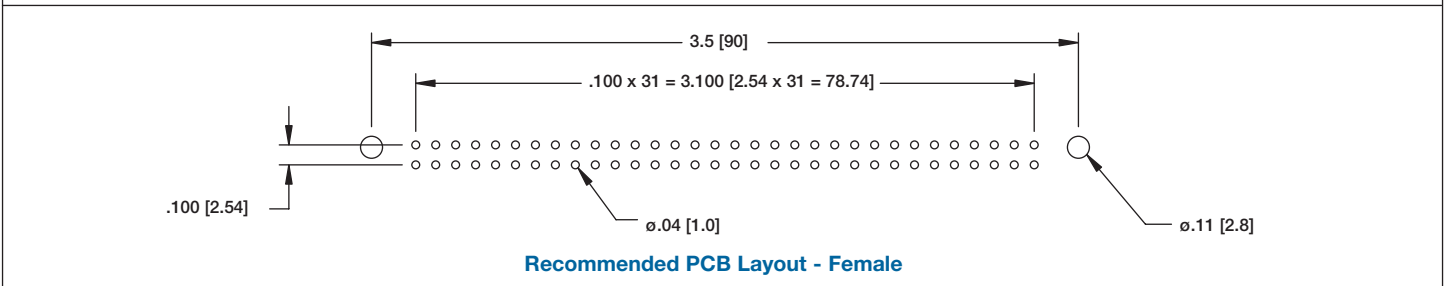
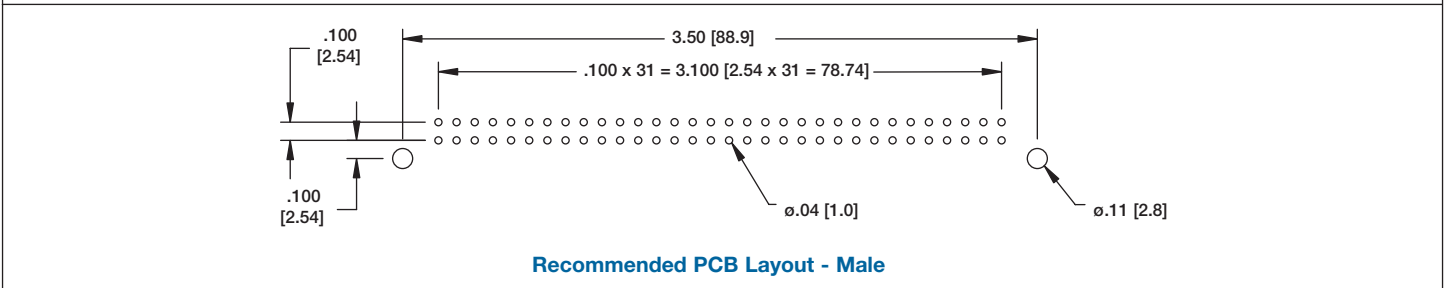
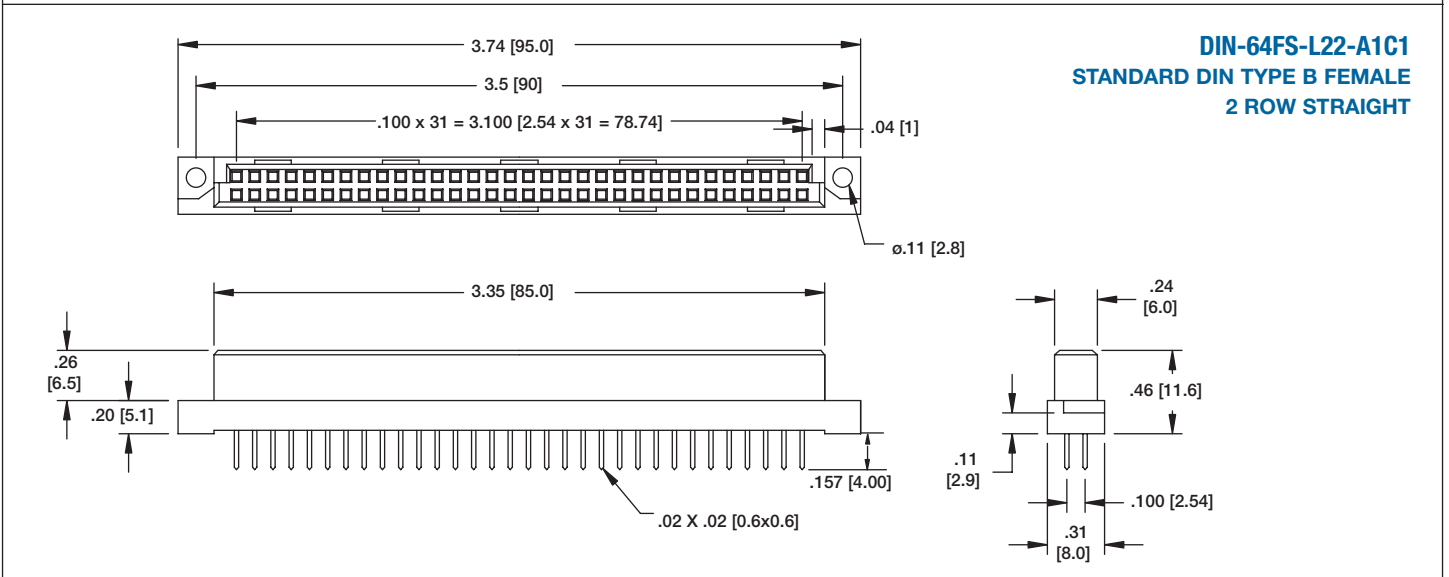
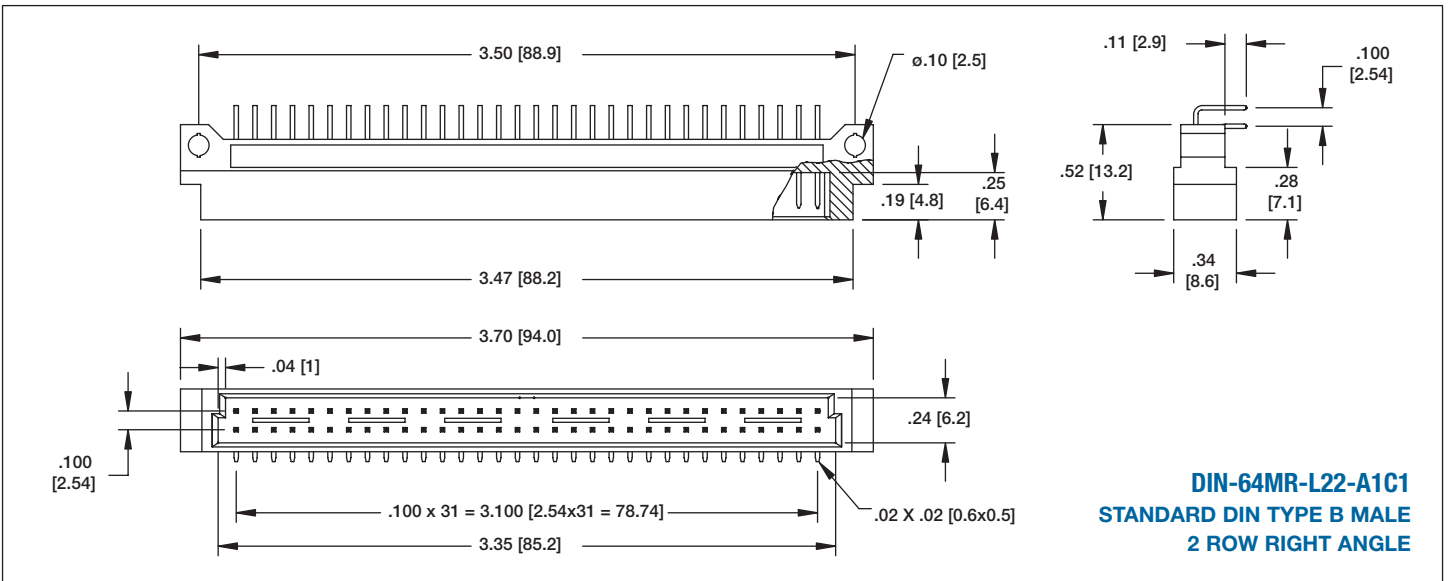
DIN-64FR-L22-A3C1
INVERSE DIN TYPE Q FEMALE
2 ROW RIGHT ANGLE

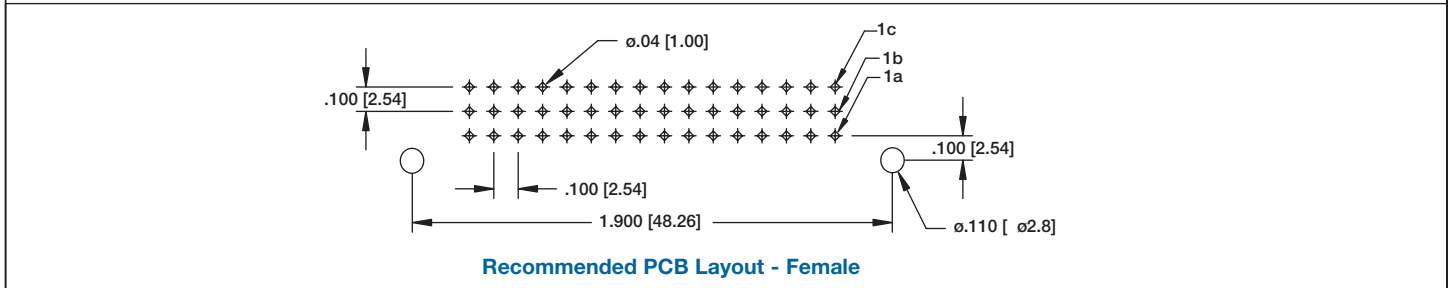
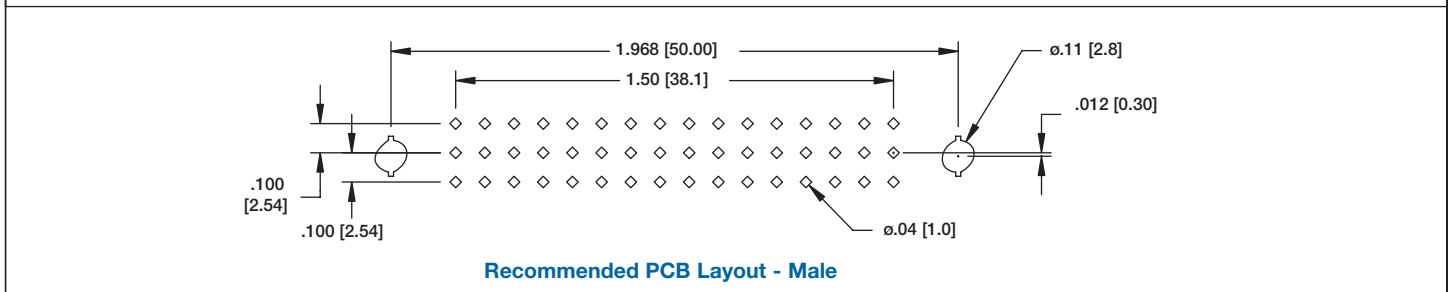
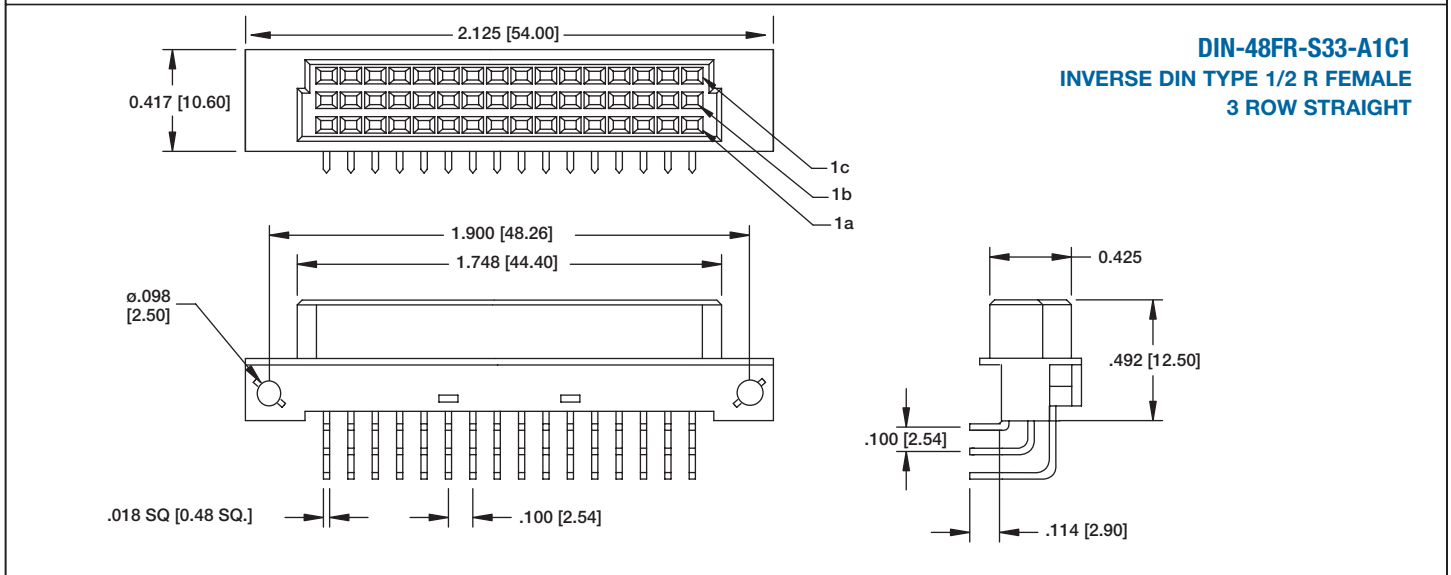
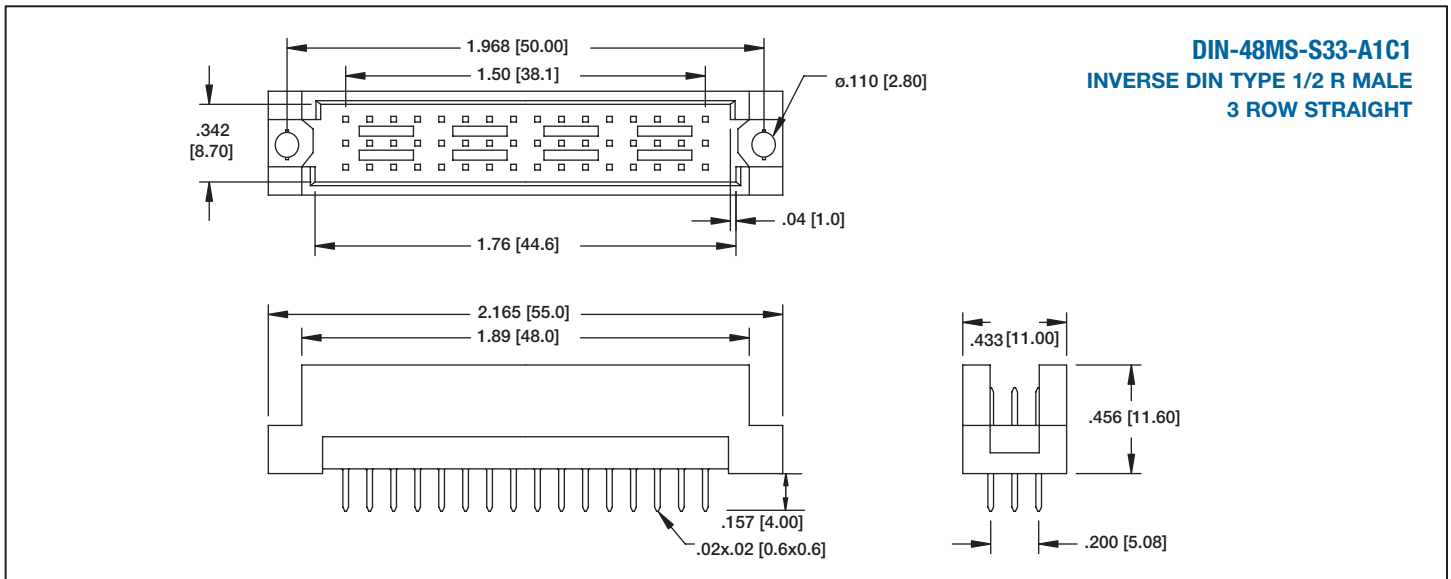


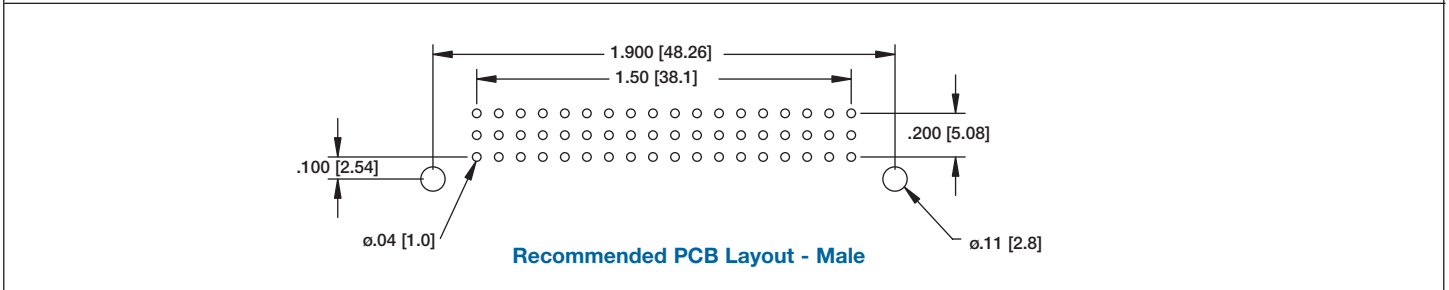
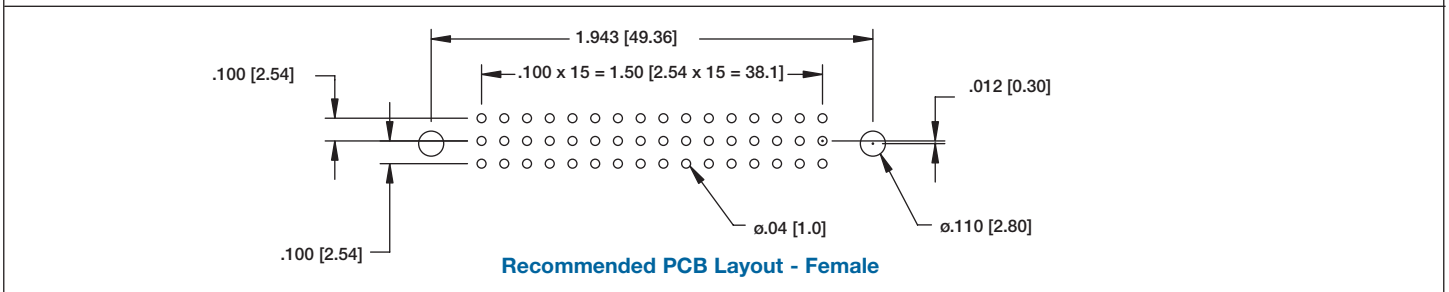
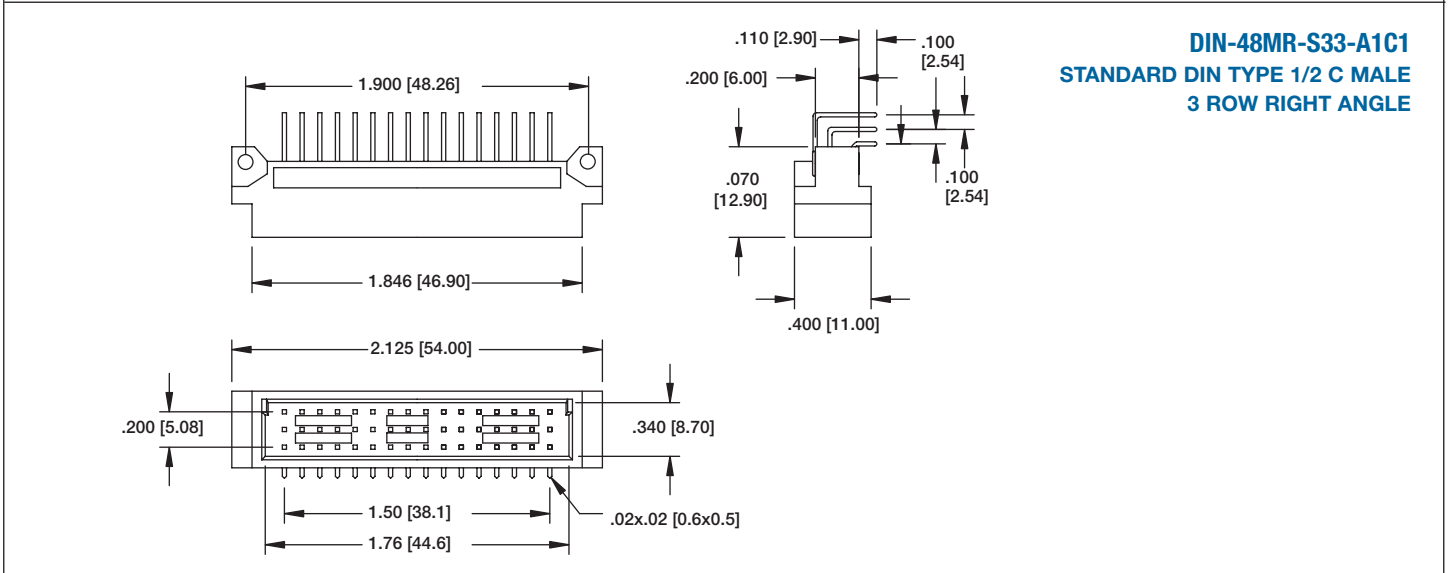
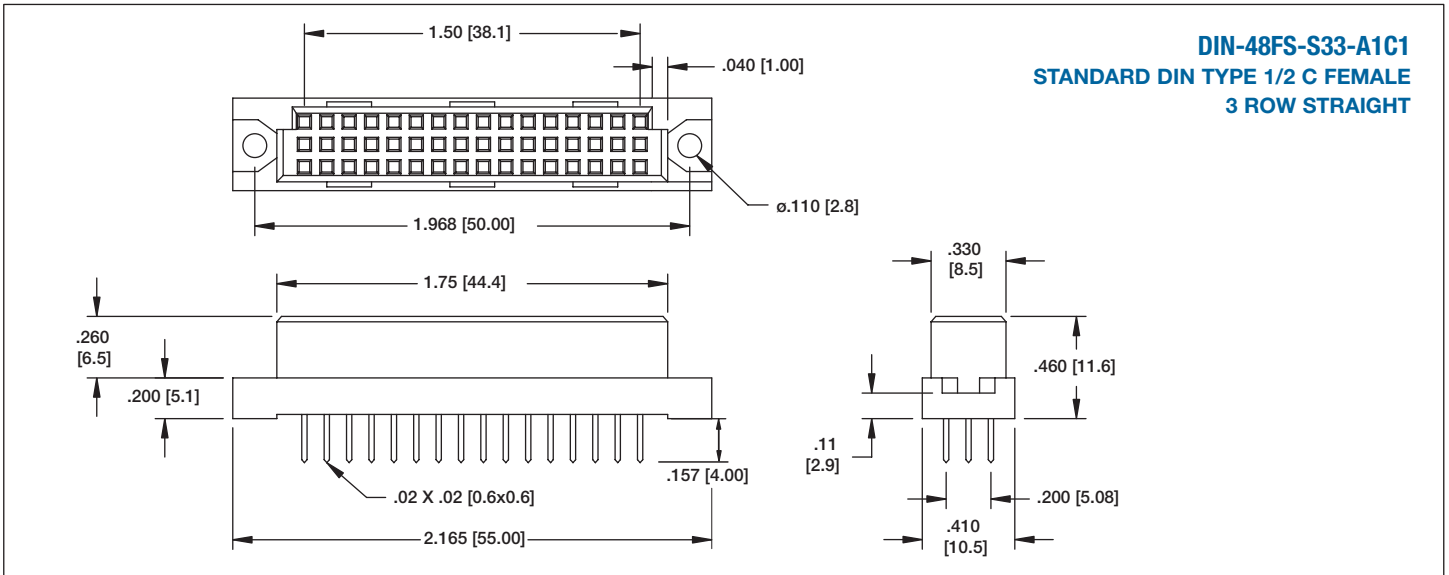
Recommended PCB Layout - Male



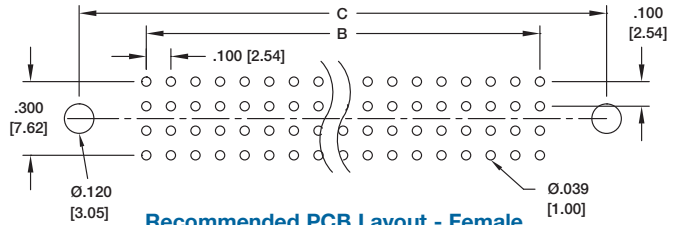
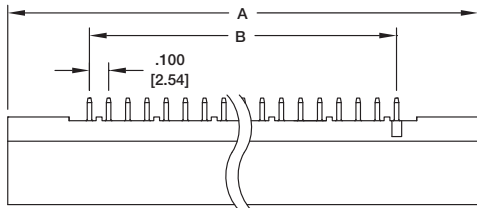
Recommended PCB Layout - Female



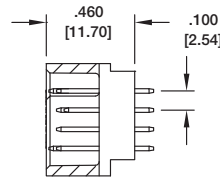
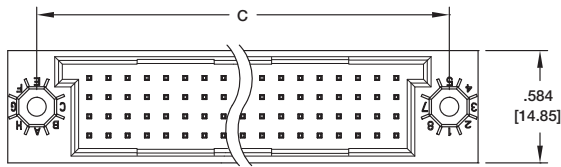




DIN-240MS-L44-A1 4 ROW MALE STRAIGHT

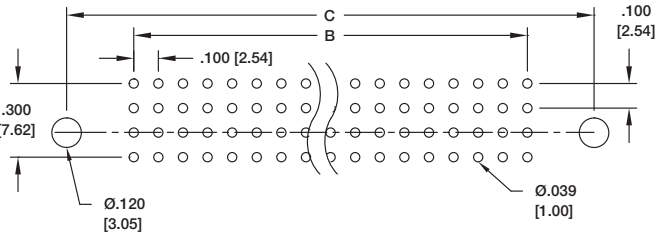
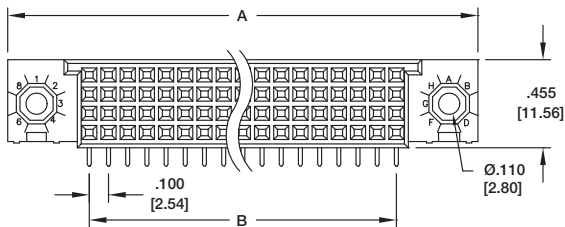


Recommended PCB Layout - Female

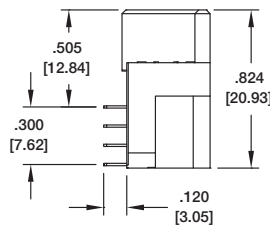
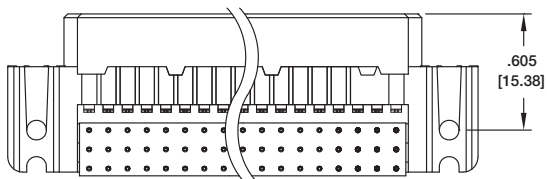


POSITIONS	DIMENSIONS		
	A	B	C
100	3.250 [82.55]	2.400 [60.96]	2.950 [74.93]
128	3.950 [100.33]	3.100 [78.74]	3.650 [92.71]
160	4.750 [120.65]	3.900 [99.06]	4.450 [113.03]
200	5.750 [146.05]	4.900 [124.46]	5.450 [138.43]
240	6.750 [171.45]	5.900 [149.86]	6.450 [163.83]

DIN-240FR-L44-A1 4 ROW FEMALE RIGHT ANGLE



Recommended PCB Layout - Female



POSITIONS	DIMENSIONS		
	A	B	C
100	3.250 [82.55]	2.400 [60.96]	2.950 [74.93]
128	3.950 [100.33]	3.100 [78.74]	3.650 [92.71]
160	4.750 [120.65]	3.900 [99.06]	4.450 [113.03]
200	5.750 [146.05]	4.900 [124.46]	5.450 [138.43]
240	6.750 [171.45]	5.900 [149.86]	6.450 [163.83]

INTRODUCTION:

Adam Tech HHS Series of multiple pitch Headers and Housings are a matched set of Crimp Wire Housings and PCB mounted Shrouded Headers available in Straight, Right Angle or SMT orientation. Offered in various popular industry standard styles they provide a lightweight, fine pitched, polarized, high reliability connection system.

FEATURES:

Multiple pitches and configurations
Matched Housing & Header system
Straight, Right Angle or SMT Headers
Sure fit, Fine Pitched & Polarized

MATING CONNECTORS:

Each set has a male and female mate

SPECIFICATIONS:

Material:

Insulator: Thru-hole: PBT, glass reinforced, rated UL94V-0
SMT: Nylon 46 or 6T, rated UL94V-0

Contacts: Brass

Plating:

Tin over copper underplate overall

Electrical:

Operating voltage: 100V AC max.
Current rating: 0.5 - 5 Amps max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 800V AC for 1 minute

Mechanical:

Insertion force: 1.28 lbs max
Withdrawal force: 0.180 lbs min.

Temperature Rating:

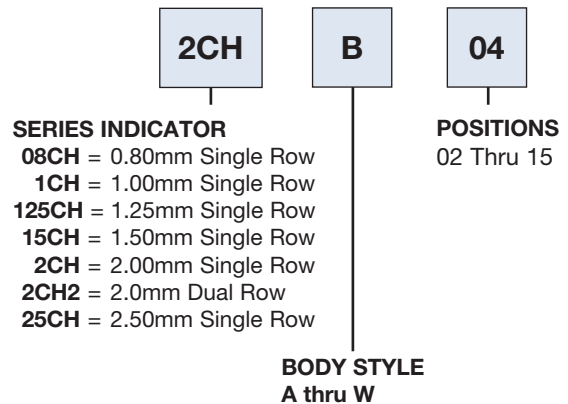
Operating temperature: -25°C to +85°C

SAFETY AGENCY APPROVALS:

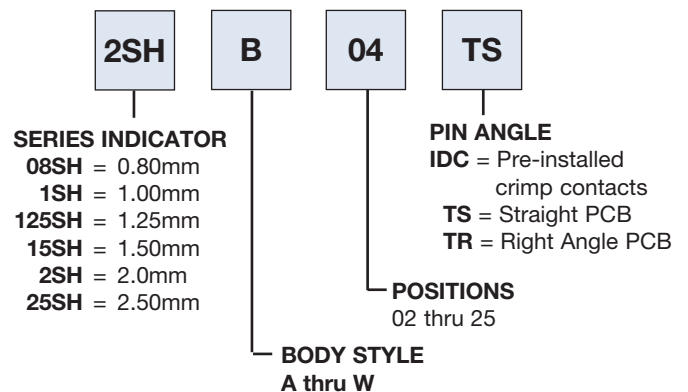
UL Recognized File no. E224053



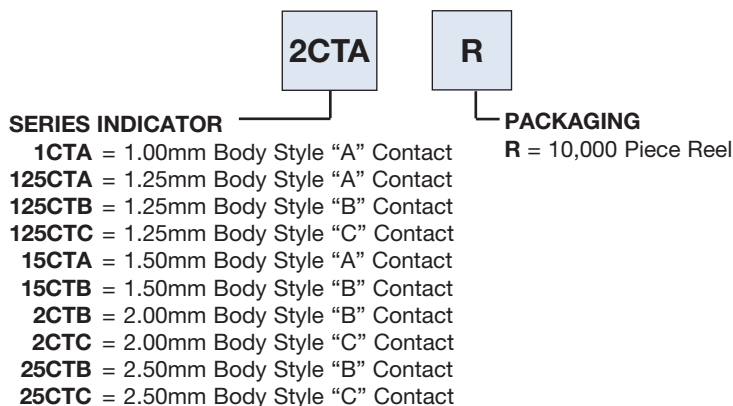
ORDERING INFORMATION CRIMP HOUSING



ORDERING INFORMATION SHROUDED HEADER



ORDERING INFORMATION CRIMP CONTACT



OPTIONS:

Add designator(s) to end of part number
SMT = Surface mount leads with Hi-Temp insulator

0.8mm TYPE A

08CH-A-XX-IDC
0.8mm IDC HOUSING
WITH PRE-INSTALLED
CONTACTS

08CH-A-08-IDC

Replace (XX) with No. of positions
A=.031 [0.80] X No. of Positions -1
B=.031 [0.80] X No. of Positions + .031 [0.80]

08SH-A-XX-TS-SMT
0.8mm VERTICAL SMT HEADER

08SH-A-08-TS-SMT

Replace (XX) with No. of positions
A=.031 [0.80] X No. of Positions -1
B=.031 [0.80] X No. of Positions + .031 [0.80]

Recommended PCB Layout

1.00mm TYPE A

1CH-A-XX
1.00mm CRIMP HOUSING

1CH-A-04

Replace (XX) with No. of positions
A=.039 [1.00] X No. of Positions -1
B=.039 [1.00] X No. of Positions + .118 [3.00]

1CTA-R
1.00mm TERMINAL

1CTA-R

Recommended wire size 32-28 awg.

1SH-A-XX-TS-SMT
1.00mm VERTICAL SMT HEADER

1SH-A-04-TS-SMT

Replace (XX) with No. of positions
A=.039 [1.00] X No. of Positions -1
B=.039 [1.00] X No. of Positions + .078 [2.00]

Recommended PCB Layout

1SH-A-XX-TR-SMT
1.00mm RIGHT ANGLE SMT HEADER

1SH-A-04-TR-SMT

Replace (XX) with No. of positions
A=.039 [1.00] X No. of Positions -1
B=.039 [1.00] X No. of Positions + .078 [2.00]

Recommended PCB Layout

125CH-A-XX 1.25mm CRIMP HOUSING

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .068 [1.75]

125CH-A-10

125CTA-R 1.25mm CRIMP TERMINAL

Recommended wire size 32-28 awg.

125SH-A-XX-TS 1.25mm VERTICAL HEADER

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .068 [1.75]

125SH-A-04-TS

Recommended PCB Layout

125SH-A-XX-TR 1.25mm RIGHT ANGLE HEADER

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .068 [1.75]

125SH-A-04-TR

Recommended PCB Layout

125SH-A-XX-TS-SMT 1.25mm VERTICAL SMT HEADER

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .068 [1.75]

125SH-A-04-TS-SMT

Recommended PCB Layout

125SH-A-XX-TR-SMT 1.25mm RIGHT ANGLE SMT HEADER

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .068 [1.75]

125SH-A-04-TR-SMT

Recommended PCB Layout

125CH-B-XX
1.25mm CRIMP HOUSING

125CH-B-10

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .017 [0.45]
 C=.049 [1.25] X No. of Positions + .068 [1.75]

125CTB-R
1.25mm CRIMP TERMINAL

125CTB-R

Recommended wire size 32-28 awg.

125SH-B-XX-TS
1.25mm VERTICAL HEADER

125SH-B-04-TS

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .068 [1.75]

Recommended PCB Layout

125SH-B-XX-TS-SMT
1.25mm VERTICAL SMT HEADER

125SH-B-04-TS-SMT

Recommended PCB Layout

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .068 [1.75]
 C=.049 [1.25] X No. of Positions + .202 [5.15]

125SH-B-XX-TR-SMT
1.25mm RIGHT ANGLE SMT HEADER

125SH-B-04-TR-SMT

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .068 [1.75]
 C=.049 [1.25] X No. of Positions + .187 [4.75]

Recommended PCB Layout

125SH-B-XX-TR-SMT
1.25mm RIGHT ANGLE SMT HEADER

125SH-B-04-TR-SMT

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .068 [1.75]
 C=.049 [1.25] X No. of Positions + .187 [4.75]

Recommended PCB Layout

125CH-C-XX
1.25mm CRIMP HOUSING

125CH-C-05

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .065 [1.65]

125CTC-R
1.25mm CRIMP TERMINAL

125CTC-R

Recommended wire size 28-32 awg.

125SH-C-XX-TS
1.25mm VERTICAL HEADER

125SH-C-05-TS

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .049 [1.25]

Recommended PCB Layout

125SH-C-XX-TR
1.25mm RIGHT ANGLE HEADER

125SH-C-05-TR

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .049 [1.25]

Recommended PCB Layout

125SH-C-XX-TS-SMT
1.25mm VERTICAL SMT HEADER

125SH-C-06-TS-SMT

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .065 [1.65]
 C=.049 [1.25] X No. of Positions + .124 [3.15]

Recommended PCB Layout

125SH-C-XX-TR-SMT
1.25mm RIGHT ANGLE SMT HEADER

125SH-C-08-TR-SMT

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .065 [1.65]
 C=.049 [1.25] X No. of Positions + .124 [3.15]

Recommended PCB Layout

125CH-D-XX
1.25mm CRIMP HOUSING

125SH-D-08

CIRCUIT 1

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .077 [1.95]

125CH-G
1.25mm CRIMP HOUSING

125SH-G-08

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .057 [1.45]

125SH-D-XX-TR-SMT
1.25mm RIGHT ANGLE
SMT HEADER

125SH-D-06-TR-SMT

Recommended PCB Layout

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .244 [6.20]
 C=.049 [1.25] X No. of Positions + .205 [5.20]

125SH-G-XX-TR-SMT
1.25mm RIGHT ANGLE
SMT HEADER

125SH-G-03-TR-SMT

PCB Layout

Replace (XX) with No. of positions
 A=.049 [1.25] X No. of Positions -1
 B=.049 [1.25] X No. of Positions + .252 [6.40]

125CTD-R
1.25mm CRIMP TERMINAL

Recommended wire size 28-32 awg.

125CTD-R

125CTG-X-R
1.25mm CRIMP TERMINAL

Recommended wire size 28-32 awg.

125CTG-R

1.5mm TYPE A

<p style="text-align: center;">15CH-A-XX 1.5mm CRIMP HOUSING</p> <p style="text-align: center;">15CH-A-10</p> <p>Replace (XX) with No. of positions A=.059 [1.50] X No. of Positions -1 B=.059 [1.50] X No. of Positions + .059 [1.50]</p>	<p style="text-align: center;">15CTA-R 1.5mm CRIMP TERMINAL</p> <p style="text-align: center;">15CTA-R</p> <p>Recommended wire size 26-30 awg.</p>
<p style="text-align: center;">15SH-A-XX-TS 1.5mm VERTICAL HEADER</p> <p style="text-align: center;">15SH-A-04-TS</p> <p>Replace (XX) with No. of positions A=.059 [1.50] X No. of Positions -1 B=.059 [1.50] X No. OF SPACES +.059 [1.50]</p> <p style="text-align: center;">Recommended PCB Layout</p>	<p style="text-align: center;">15SH-A-XX-TR 1.5mm RIGHT ANGLE HEADER</p> <p style="text-align: center;">15SH-A-04-TR</p> <p>Replace (XX) with No. of positions A=.059 [1.50] X No. of Positions -1 B=.059 [1.50] X No. OF SPACES +.118 [3.00]</p> <p style="text-align: center;">Recommended PCB Layout</p>
<p style="text-align: center;">15SH-A-XX-TS-SMT 1.5mm VERTICAL SMT HEADER</p> <p style="text-align: center;">15SH-A-04-TS-SMT</p> <p>Replace (XX) with No. of positions A=.059 [1.50] X No. of Positions -1 C=.059 [1.50] X No. of Positions + .118 [3.00]</p> <p style="text-align: center;">Recommended PCB Layout</p>	<p style="text-align: center;">15SH-A-XX-TR-SMT 1.5mm RIGHT ANGLE SMT HEADER</p> <p style="text-align: center;">15SH-A-04-TR-SMT</p> <p>Replace (XX) with No. of positions A=.059 [1.50] X No. of Positions -1 C=.059 [1.50] X No. of Positions + .118 [3.00]</p> <p style="text-align: center;">Recommended PCB Layout</p>

1.5mm TYPE B

<p>15CH-B-XX 1.5mm CRIMP HOUSING</p> <p>15CTB-R 1.5mm CRIMP TERMINAL</p> <p>Replace (XX) with No. of positions A=.059 [1.50] X No. of Positions -1 B=.059 [1.50] X No. of Positions +.043 [1.10]</p>	<p>15SH-B-XX-TS-SMT 1.5mm VERTICAL SMT HEADER</p> <p>15SH-B-XX-TR-SMT 1.5mm RIGHT ANGLE SMT HEADER</p> <p>Replace (XX) with No. of positions A=.059 [1.50] X No. of Positions -1 B=.059 [1.50] X No. of Positions +.051 [1.30]</p>
<p>15CH-B-05 1.5mm CRIMP HOUSING</p> <p>15CTB-R 1.5mm CRIMP TERMINAL</p> <p>Recommended wire size 28-24 awg.</p>	<p>15SH-B-04-TS-SMT 1.5mm VERTICAL SMT HEADER</p> <p>15SH-B-04-TR-SMT 1.5mm RIGHT ANGLE SMT HEADER</p> <p>Replace (XX) with No. of positions A=.059 [1.50] X No. of Positions -1 B=.059 [1.50] X No. of Positions +.051 [1.30]</p>

2mm TYPE B

<p>2CH-B-XX 2mm CRIMP HOUSING</p> <p>2CTB 2mm CRIMP TERMINAL</p> <p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions -1 B = .079 [2.00] x No. of Positions +.063 [1.60]</p>	<p>2SH-B-XX-TS 2mm VERTICAL SMT HEADER</p> <p>2SH-B-XX-TR 2mm RIGHT ANGLE SMT HEADER</p> <p>Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions -1 B = .079 [2.00] x No. of Positions +.078 [2.00]</p>
<p>2CH-B-10 2mm CRIMP HOUSING</p> <p>2CTB-R 2mm CRIMP TERMINAL</p> <p>Recommended wire size 28-22 awg.</p>	<p>2SH-B-10-TS 2mm VERTICAL SMT HEADER</p> <p>2SH-B-10-TR 2mm RIGHT ANGLE SMT HEADER</p> <p>Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions -1 B = .079 [2.00] x No. of Positions +.078 [2.00]</p>

2mm TYPE C

2CH-C-XX
2mm CRIMP HOUSING

2CH-C-10

Positions: 2 thru 20
 Replace (XX) with No. of positions
 A = $.079 [2.00] \times \text{No. of Positions} - 1$
 B = $.079 [2.00] \times \text{No. of Positions} + .071 [1.80]$

2CTC-R
2mm CRIMP TERMINAL

2CTC-R

Recommended wire size 28-22 awg.

2SH-C-XX-TS
2mm VERTICAL HEADER

2SH-C-10-TS

PCB Layout

Positions: 2 thru 20
 Replace (XX) with No. of positions
 A = $.079 [2.00] \times \text{No. of Positions} - 1$
 B = $.079 [2.00] \times \text{No. of Positions} + .082 [2.10]$

2SH-C-XX-TR
2mm RIGHT ANGLE HEADER

2SH-C-10-TR

PCB Layout

Positions: 2 thru 20
 Replace (XX) with No. of positions
 A = $.079 [2.00] \times \text{No. of Positions} - 1$
 B = $.079 [2.00] \times \text{No. of Positions} + .082 [2.10]$

2SH-C-XX-TS-SMT
2mm VERTICAL SMT HEADER

2SH-C-10-TS-SMT

PCB Layout

Positions: 2 thru 16
 Replace (XX) with No. of positions
 A = $.079 [2.00] \times \text{No. of Positions} - 1$
 B = $.079 [2.00] \times \text{No. of Positions} + .153 [3.90]$

2SH-C-XX-TR-SMT
2mm RIGHT ANGLE SMT HEADER

2SH-C-10-TR-SMT

PCB Layout

Positions: 2 thru 16
 Replace (XX) with No. of positions
 A = $.079 [2.00] \times \text{No. of Positions} - 1$
 B = $.079 [2.00] \times \text{No. of Positions} + .153 [3.90]$

2mm TYPE D

2CH-D-XX
2.0mm CRIMP HOUSING

2CH-D-03

Positions: 2 thru 15
Replace (XX) with No. of positions
A = .079 [2.00] x No. of Spaces
B = .079 [2.00] x No. of Spaces + .110 [2.80]
C = .079 [2.00] x No. of Spaces + .157 [4.00]

2CTD-R
2.0mm CRIMP TERMINAL

2CTD-R

Recommended wire size 26-30 awg

2SH-D-XX-TS
2.0mm VERTICAL HEADER

2SH-D-03-TS

Recommended PCB Layout

Positions: 2 thru 15
Replace (XX) with No. of positions
A = .079 [2.00] x No. of Spaces
B = .079 [2.00] x No. of Spaces + .152 [3.85]

2SH-D-XX-TR
2.0mm RIGHT ANGLE HEADER

2SH-D-03-TR

Recommended PCB Layout

Positions: 2 thru 15
Replace (XX) with No. of positions
A = .079 [2.00] x No. of Spaces
B = .079 [2.00] x No. of Spaces + .152 [3.85]

2mm TYPE F

2CH-F-XX
2.0mm CRIMP HOUSING

2CH-F-05

Positions: 2 thru 15
Replace (XX) with No. of positions
A = .079 [2.00] x No. of Spaces
B = .079 [2.00] x No. of Spaces + .114 [2.90]

2CTF-R
2.0mm CRIMP TERMINAL

2CTF-R

Recommended wire size 26-30 awg

2mm TYPE F

<p>2SH-F-XX-TS 2mm VERTICAL HEADER</p> <p>2SH-F-05-TS</p> <p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions - 1 B = .079 [2.00] x No. of Positions + .157 [4.00]</p> <p>Recommended PCB Layout</p>	<p>2SH-F-XX-TR 2mm RIGHT ANGLE HEADER</p> <p>2SH-F-05-TR</p> <p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions - 1 B = .079 [2.00] x No. of Positions + .157 [4.00]</p> <p>Recommended PCB Layout</p>
---	--

2mm TYPE H

<p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions - 1 B = .079 [2.00] x No. of Positions + .035 [0.90]</p> <p>2CH-H-XX 2mm CRIMP HOUSING</p> <p>2CH-H-05</p> <p>Recommended PCB Layout</p>	<p>2CTH-R 2mm CRIMP TERMINAL</p> <p>2CTH-R</p> <p>Recommended wire size 26-30 awg</p>
---	---

<p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions - 1 B = .079 [2.00] x No. of Positions + .078 [2.00]</p> <p>2SH-H-XX-TS 2mm VERTICAL HEADER WITH PEG</p> <p>2SH-H-05-TS</p> <p>Recommended PCB Layout</p>	<p>Positions: 2 thru 15 Replace (XX) with No. of positions A = .079 [2.00] x No. of Positions - 1 B = .079 [2.00] x No. of Positions + .078 [2.00]</p> <p>2SH-H-XX-TR 2mm RIGHT ANGLE HEADER</p> <p>2SH-H-05-TR</p> <p>Recommended PCB Layout</p>
--	--

2mm TYPE J

Positions: 2 thru 18
Replace (XX) with No. of positions
A = .098 [2.50] x No. of Positions -1
B = .098 [2.50] x No. of Positions +.157 [4.00]

2SH-J-XX-TS
2.0mm VERTICAL HEADER

2SH-J-04-TS

Recommended PCB Layout

Positions: 2 thru 18
Replace (XX) with No. of positions
A = .098 [2.50] x No. of Positions -1
B = .098 [2.50] x No. of Positions +.157 [4.00]

2SH-J-XX-TR
2.0mm RIGHT ANGLE HEADER

2SH-J-04-TR

Recommended PCB Layout

2.5mm TYPE E

Positions: 2 thru 18
Replace (XX) with No. of positions
A = .098 [2.50] x No. of Positions -1
B = .098 [2.50] x No. of Positions +.130 [3.30]
C = .098 [2.50] x No. of Positions +.193 [4.90]

25CH-E-XX
2.0mm CRIMP HOUSING

25CH-E-05

25CTE-R
2.0mm CRIMP TERMINAL

25CTE-R

Recommended wire size 22-28 awg

Positions: 2 thru 18
Replace (XX) with No. of positions
A = .098 [2.50] x No. of Positions -1
B = .098 [2.50] x No. of Positions +.197 [5.00]

25SH-E-XX-TS
2.5mm VERTICAL HEADER

25SH-E-05-TS

Recommended PCB Layout

Positions: 2 thru 18
Replace (XX) with No. of positions
A = .098 [2.50] x No. of Positions -1
B = .098 [2.50] x No. of Positions +.197 [5.00]

25SH-E-XX-TR
2.5mm RIGHT ANGLE HEADER

25SH-E-05-TR

PCB Layout

2.5mm TYPE B

25CH-B-XX
2.5mm CRIMP HOUSING

25CH-B-03

Positions: 2 thru 20
Replace (XX) with No. of positions
A = .098 [2.50] x No. of Positions -1
B = .098 [2.50] x No. of Positions + .189 [4.80]

25BTC-R
2.5mm CRIMP TERMINAL

25CTB-R

25SH-B-XX-TS
2.5mm VERTICAL HEADER

25SH-B-03-TS

PC B Layout

25SH-B-03-TR

Positions: 2 thru 20
Replace (XX) with No. of positions
A = .098 [2.50] x No. of Positions -1
B = .098 [2.50] x No. of Positions + .102 [2.60]

25SH-B-XX-TR
2.5mm RIGHT ANGLE HEADER

25SH-B-03-TR

PCB Layout

25SH-B-03-TR

Positions: 2 thru 20
Replace (XX) with No. of positions
A = .098 [2.50] x No. of Positions -1
B = .098 [2.50] x No. of Positions + .102 [2.60]
Wire sizes 28-24 awg.

2.5mm TYPE C

25CH-C-XX
2.5mm CRIMP HOUSING

25CH-C-05

Positions: 2 thru 20
Replace (XX) with No. of positions
A = .098 [2.50] x No. of Positions -1
B = .098 [2.50] x No. of Positions + .178 [2.00]

25CTC-R
2.5mm CRIMP TERMINAL

25SH-C-XX-TS
2.5mm VERTICAL HEADER

25SH-C-04-TS

PCB Layout

25SH-C-04-TR

Positions: 2 thru 15
Replace (XX) with No. of positions
A = .098 [2.50] x No. of Positions -1
B = .098 [2.50] x No. of Positions + .198 [2.50]

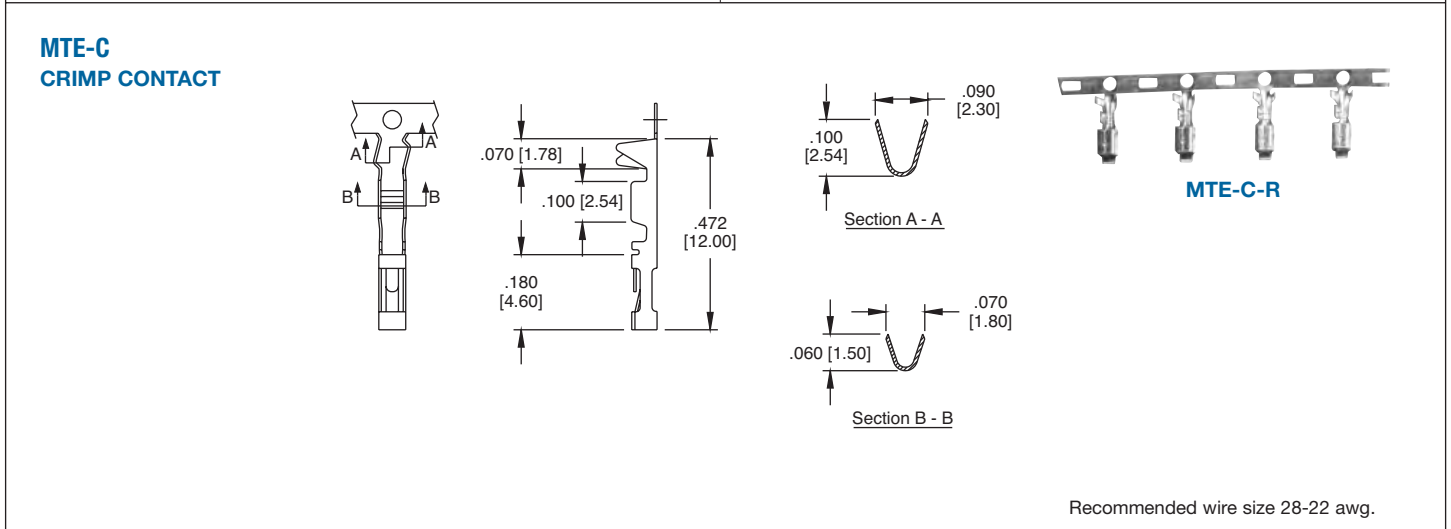
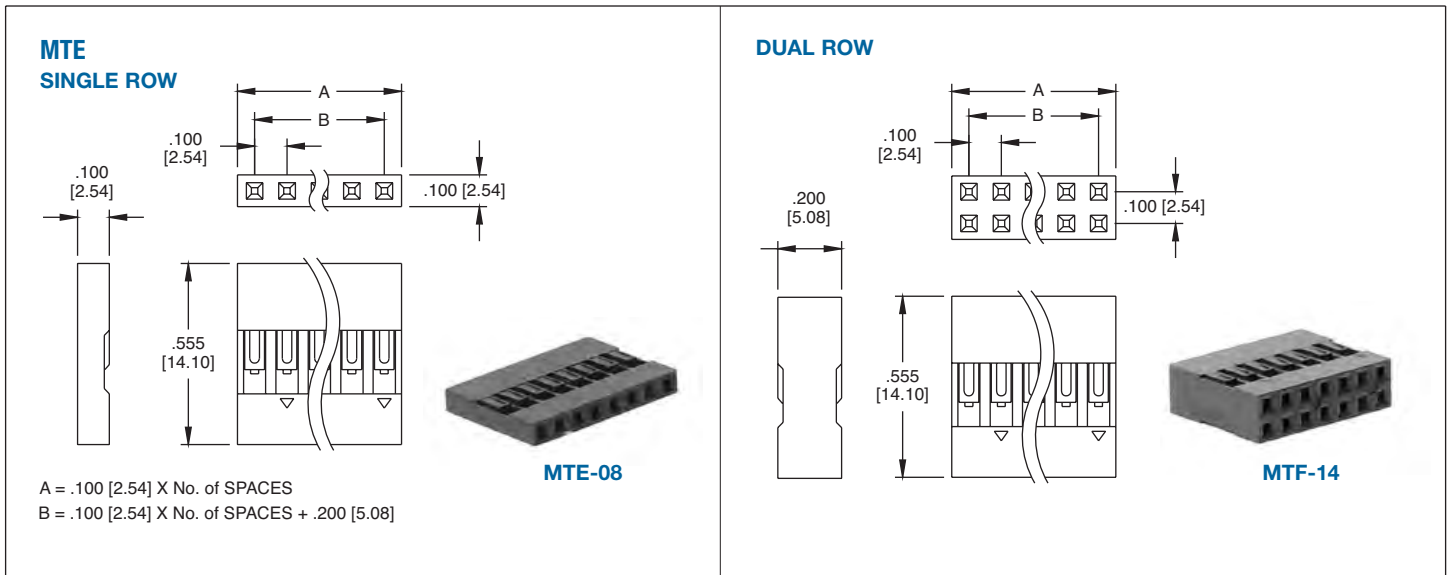
25SH-C-XX-TR
2.5mm RIGHT ANGLE HEADER

25SH-C-04-TR

PCB Layout

25SH-C-04-TR

Positions: 2 thru 15
Replace (XX) with No. of positions
A = .098 [2.50] x No. of Positions -1
B = .098 [2.50] x No. of Positions + .198 [2.50]



ORDERING INFORMATION

HOUSING		CRIMP CONTACT	
MTE	10	MTE-C	R
<p>SERIES INDICATOR MTE = Single row housing MTF = Dual row housing</p>	<p>POSITIONS SINGLE ROW (MTE) 02-40 Positions DUAL ROW (MTF) 04-80 Positions</p>	<p>SERIES INDICATOR MTE-C = Crimp contact</p>	<p>PACKAGING R = 6,000 pieces on reel</p>

INTRODUCTION:

Adam Tech CDR & CDH series latching header & housing sets were designed to attach wires to a PCB. This series features a latching housing which mates to a polarized, locking header. This set provides a secure, easy to mate connection with superior electrical characteristics.

FEATURES:

Secure, latching header & housing sets
Precision .025" sq. posts
Latching housing
Polarized anti-vibration design
Available in 2 - 12 positions

MATING CONNECTORS:

All industry standard .100 centerline compatible latching headers and housings

SPECIFICATIONS:

Material:

Insulator: Nylon 66, rated UL94V-0
Insulator Color: Black (White optional)
Contacts: Brass

Contact Plating:

Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
Current rating: 3 Amps max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Recommended wire size: 22 to 28 Awg with .059" O.D. insulation max.
Temperature Rating:
Operating temperature: -25°C to +85°C

PACKAGING:

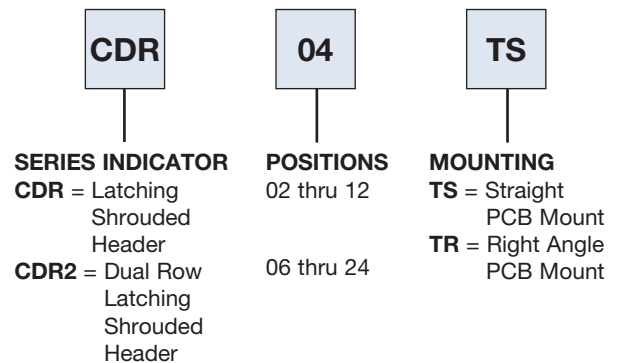
Anti-ESD plastic bags

SAFETY AGENCY APPROVALS:

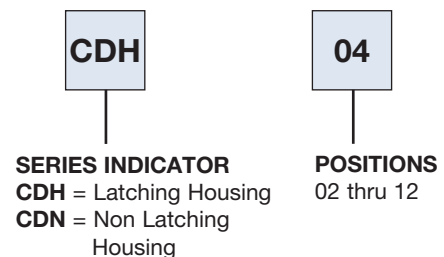
UL Recognized File no. E224053



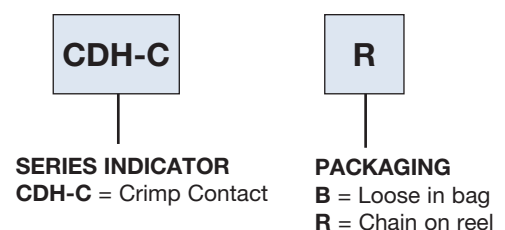
HEADER ORDERING INFORMATION




HOUSING ORDERING INFORMATION



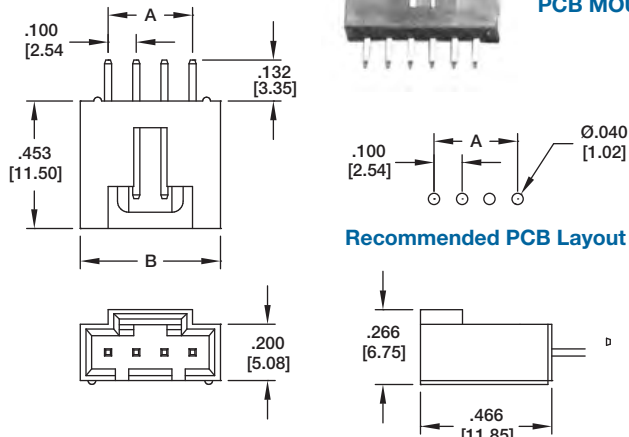
CONTACT ORDERING INFORMATION



CDR-06-TS




CDR STRAIGHT PCB MOUNT

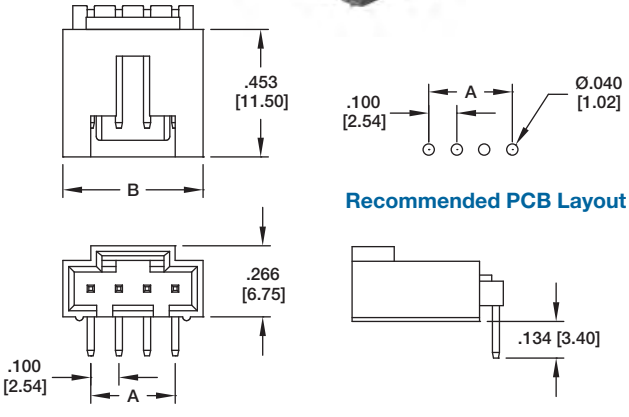


A = .100 [2.54] X No. of SPACES
B = .100 [2.54] X No. of SPACES + .200 [5.08]


CDR-06-TR



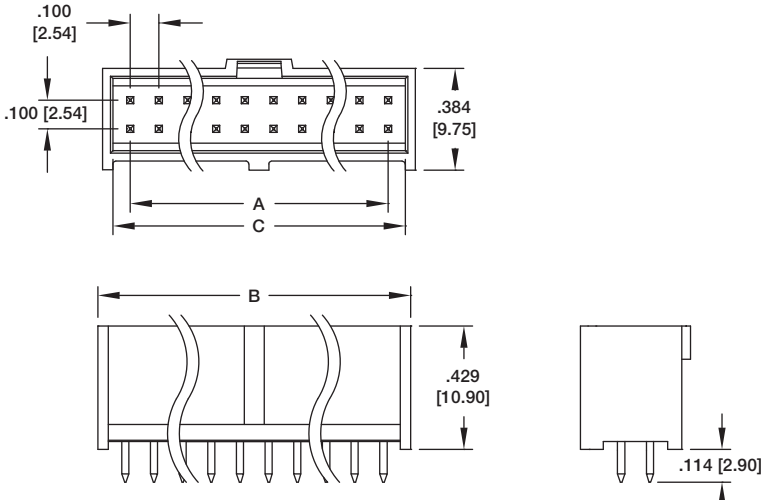
CDR RIGHT ANGLE PCB MOUNT



A = .100 [2.54] X No. of SPACES
B = .100 [2.54] X No. of SPACES + .200 [5.08]




CDR2 DUAL ROW PCB MOUNT

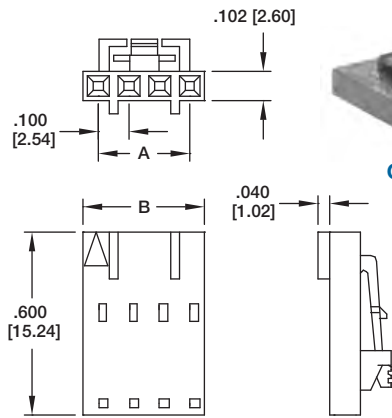


Positions: 6 thru 68
A = .100 [2.54] x No. of Spaces per row
B = .100 [2.54] x No. of Positions per row + .092 [2.34]
C = .100 [2.54] x No. of Positions per row + .020 [0.50]

CDH HOUSING

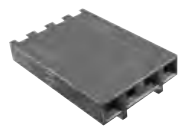


CDH-04

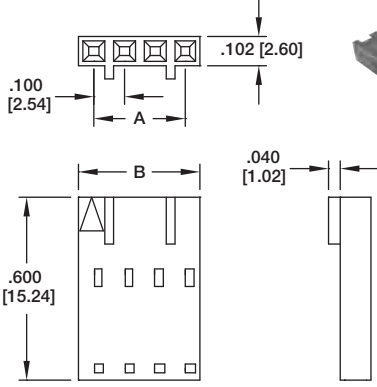


A = .100 [2.54] X No. of SPACES
B = .100 [2.54] X No. of POSITIONS

CDN HOUSING

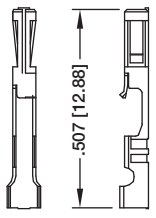


CDN-04-NL

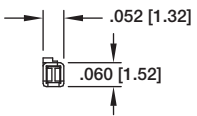


A = .100 [2.54] X No. of SPACES
B = .100 [2.54] X No. of POSITIONS

CDH-C-R CONTACT



Recommended wire size 24-28 awg.



INTRODUCTION:

Adam Tech's Latching Header & Housing sets were designed to attach wires to a PCB. This series features a friction locking header which mates to a polarized wire housing with crimp contacts. This set provides a secure, easy to mate connection with superior electrical characteristics.

FEATURES:

Precision .025" sq. posts
Secure friction lock
Polarized anti-vibration design
Available in 2 - 20 positions

MATING CONNECTORS:

All industry standard .100 centerline compatible latching headers and housings

SPECIFICATIONS:

Material:

Insulator: Nylon 66, rated UL94V-2
Insulator Color: White
Contacts: Phosphor bronze and Brass

Contact Plating:

Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
Current rating: 3 Amps max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Recommended wire size: 22 to 28 Awg with .059" O.D. insulation max.
Temperature Rating:
Operating temperature: -25°C to +85°C

PACKAGING:

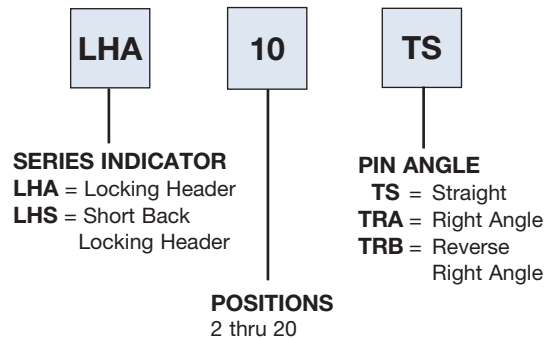
Anti-ESD plastic bags

SAFETY AGENCY APPROVALS:

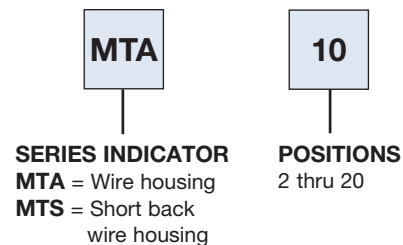
UL Recognized File no. E224053



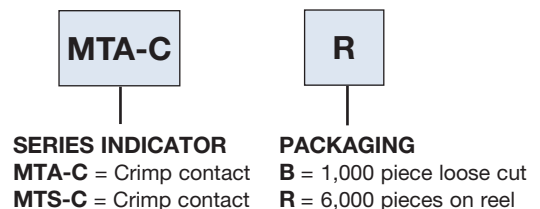
ORDERING INFORMATION FRICTION LOCK HEADER



HOUSING

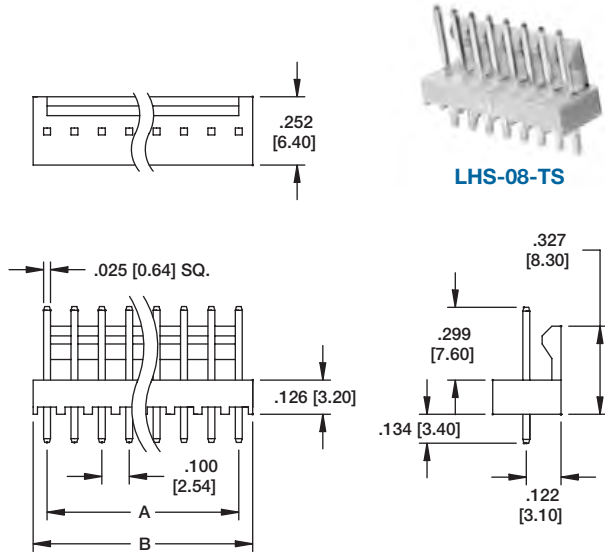


CRIMP CONTACT



<p>LHA STRAIGHT</p> <p>LHA-08-TS</p>	<p>MTA HOUSING</p> <p>MTA-08</p>
<p>LHA RIGHT ANGLE</p> <p>LHA-08-TRA</p>	<p>MTA-C CONTACT</p>
<p>LHA REVERSE RIGHT ANGLE</p> <p>LHA-08-TRB</p>	<p>Recommended PCB Layout</p> <p>A = .100 [2.54] x No. of Spaces B = .100 [2.54] X No. of Spaces + .100 [2.54] C = .100 [2.54] X No. of Spaces + .122 [3.11]</p>

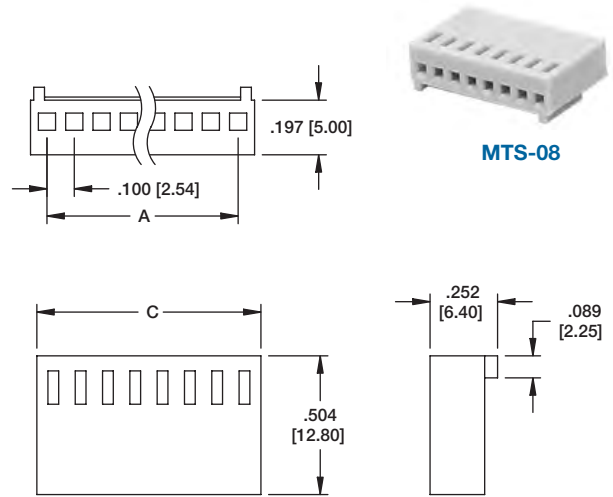
LHS STRAIGHT PCB MOUNT



LHS-08-TS

A = .100 [2.54] x No. of Spaces
B = .100 [2.54] X No. of Spaces + .104 [2.65]

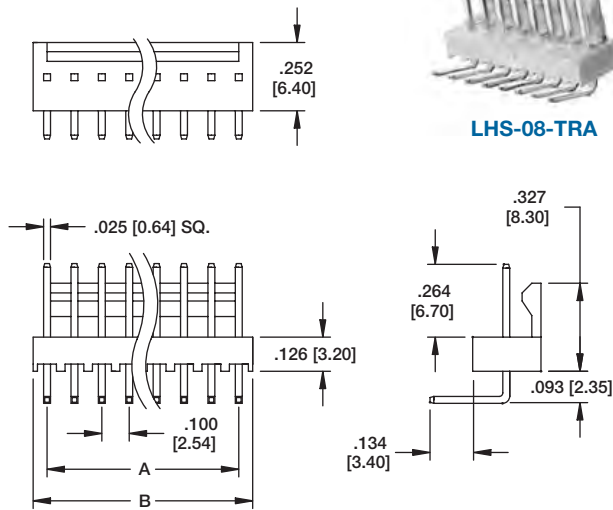
MTS HOUSING



MTS-08

A = .100 [2.54] x No. of Spaces
B = .100 [2.54] X No. of Spaces + .104 [2.65]

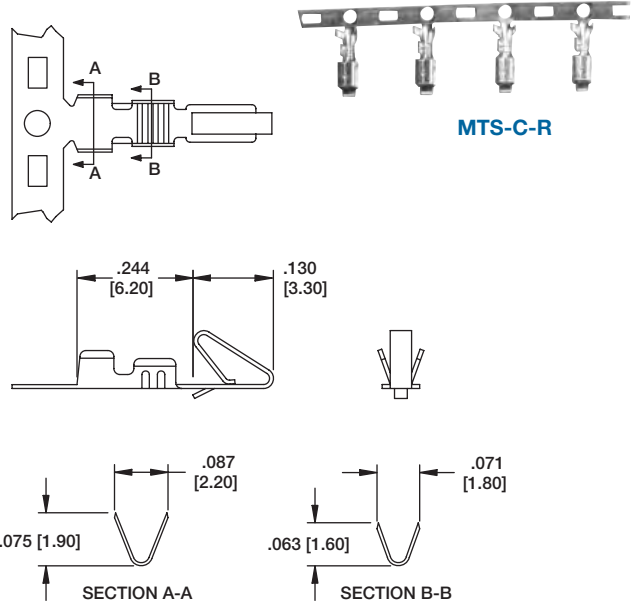
LHS RIGHT ANGLE PCB MOUNT



LHS-08-TRA

A = .100 [2.54] x No. of Spaces
B = .100 [2.54] X No. of Spaces + .104 [2.65]

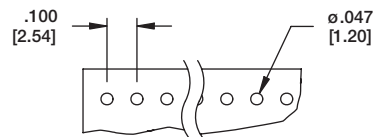
MTS-C CRIMP CONTACTS



MTS-C-R

SECTION A-A

SECTION B-B



A = .100 [2.54] x No. of Spaces
B = .100 [2.54] X No. of Spaces + .104 [2.65]

Recommended PCB Layout

INTRODUCTION:

Adam Tech .156" Headers and Housings are two matched sets of Crimp Wire Housings and PCB mounted Latching Headers available in Straight and Right Angle orientation. This system is available with a front locking header, a rear locking header or without a locking feature. Each of the locking types are polarized to fit in only one direction with the housing. This system provides a sturdy, high current, high reliability connection with or without the polarized locking option.

FEATURES:

Matched Latching Housing & Header system
Straight, Right Angle mounting Headers
Choice of Two Latching Types
Housings feature High pressure, Low insertion force contacts

MATING CONNECTORS:

Adam Tech MTB series and all industry standard latching type
.156 [3.96mm] centers

SPECIFICATIONS:

Material:

Insulator: Nylon 66, rated UL94V-2
Insulator Color: Natural
Contacts: Phosphor bronze and Brass
Contact Plating:
Tin over copper underplate overall

Electrical:

Operation voltage: 250V AC max.
Current rating: 5 Amp max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Recommended wire size: 18 to 24 Awg

Environmental:

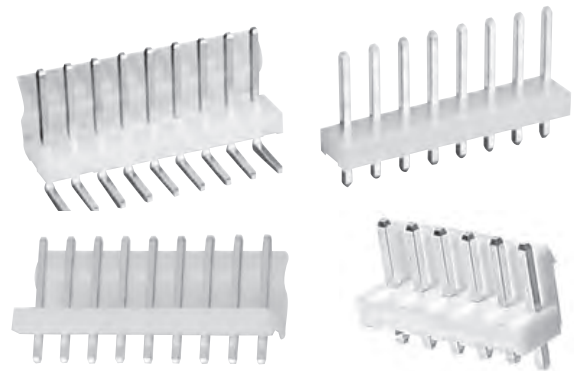
Operating temperature: -25°C to +85°C

PACKAGING:

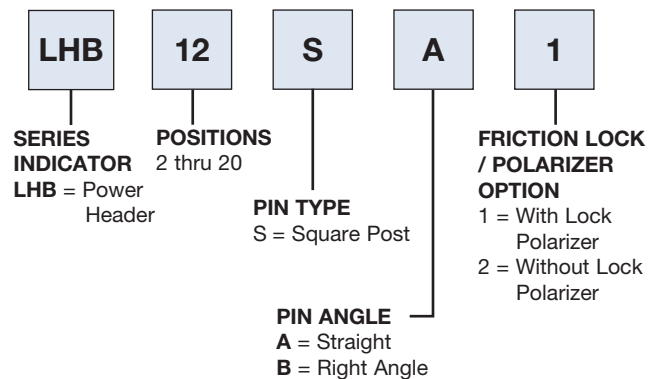
Anti-static plastic bags

APPROVALS AND CERTIFICATIONS:

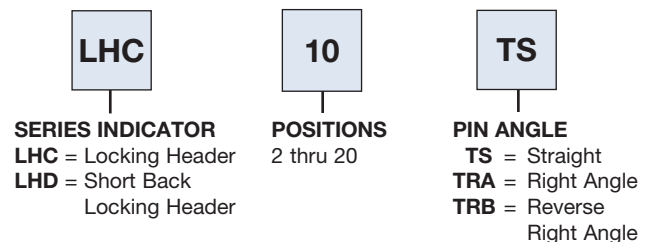
UL Recognized File no. E224053



POWER HEADER



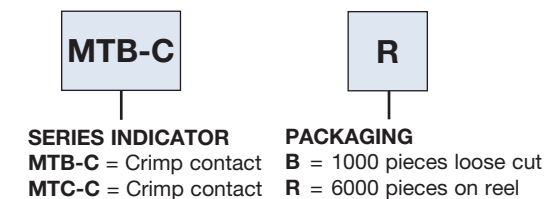
POWER HEADER



HOUSING

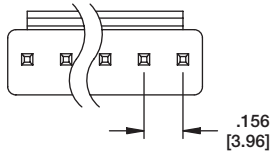


CRIMP CONTACT

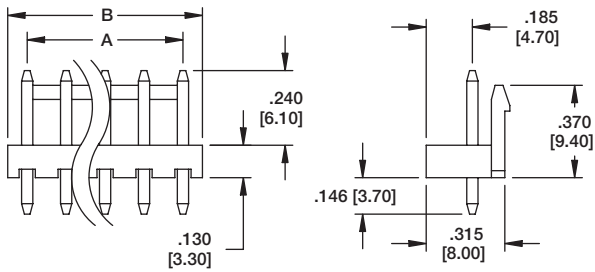


<p style="text-align: right;">LHB STRAIGHT WITHOUT BACK</p> <p style="text-align: center;">LHB-08-SA2</p>	<p style="text-align: right;">LHB RIGHT ANGLE WITHOUT BACK</p> <p style="text-align: center;">LHB-08-SB2</p>
<p style="text-align: right;">LHB STRAIGHT WITH BACK</p> <p style="text-align: center;">LHB-09-SA1</p>	<p style="text-align: right;">LHB RIGHT ANGLE WITH BACK</p> <p style="text-align: center;">LHB-09-SB1</p>
<p style="text-align: right;">MTB CRIMP HOUSING</p> <p style="text-align: center;">MTB-04</p>	<p style="text-align: right;">MTB CRIMP CONTACT</p>
<p>A = .156 [3.96] x No. of Spaces B = .156 [3.96] X No. of Positions</p>	
<p style="text-align: center;">Recommended PCB Layout</p>	

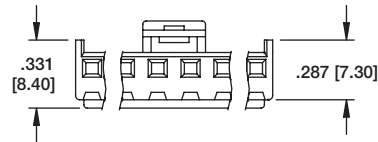
LHC STRAIGHT WITH REAR LOCK



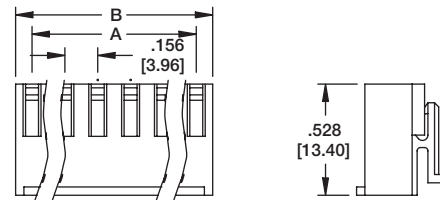
LHC-06-TS



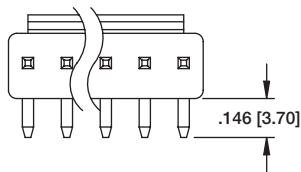
MTC HOUSING



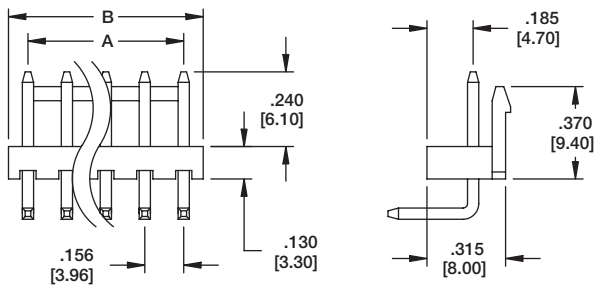
MTC-06



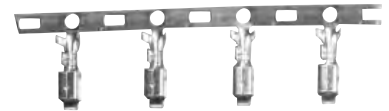
LHC RIGHT ANGLE WITH REAR LOCK



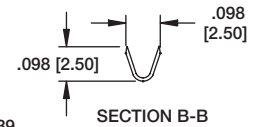
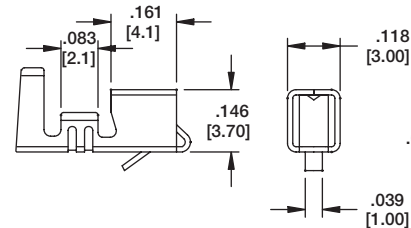
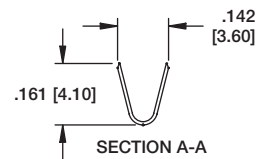
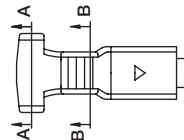
LHC-06-TRA



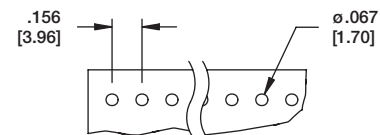
MTC-C CRIMP CONTACTS



MTC-C-R



A = .156 [3.96] x No. of Spaces
B = .156 [3.96] X No. of Spaces + .156 [3.96]



Recommended PCB Layout

<p>LHD STRAIGHT PBC MOUNT</p> <p>A = .156 [3.96] x No. of Positions B = .156 [3.96] x No. of Spaces</p> <p>LHD-06-TS</p>	<p>MTB HOUSING</p> <p>A = .156 [3.96] x No. of Positions B = .156 [3.96] x No. of Spaces</p> <p>MTB-08</p>
<p>LHD RIGHT ANGLE PCB MOUNT</p> <p>A = .156 [3.96] x No. of Positions B = .156 [3.96] x No. of Spaces</p> <p>LHD-06-TRA</p>	<p>LHD REVERSE RIGHT ANGLE PCB MOUNT</p> <p>A = .156 [3.96] x No. of Positions B = .156 [3.96] x No. of Spaces</p> <p>LHD-06-TRB</p>
<p>MTC-C CRIMP CONTACT</p> <p>MTC-C-R</p> <p>Recommended PCB Layout</p>	

INTRODUCTION:

Adam Tech's Mini-Flex series of connectors include cable to board, wire to board and board to board choices. This series is designed with a dual contact point mating system and an array of locating posts and PCB pegs for positive alignment and friction lock mating. Rigid, staggered solder tails provide excellent stability for rugged use and feature kinked tails for PCB retention.

FEATURES:

Fine .050" Pitch for Hi-Density connection
 Flat heavy gauge contact blades for positive connectivity
 Equipped with Polarizing posts and locating pegs
 Positive Friction Locking mating
 Kinked solder tails for PCB retention

SPECIFICATIONS:

Material:
 Insulator: Polyester, glass filled, rated UL94V-0
 Insulator Color: Red
 Contacts: Phosphor Bronze or Brass

PLATING:

Tin over Copper underplate overall

ELECTRICAL:

Operating Voltage: 250V AC
 Current Rating: 1.2 Amps Max.
 Contact Resistance: 10 mΩ Max.
 Insulation Resistance: 1000 MΩ Min.
 Dielectric Withstanding Voltage: 750V AC for 1 Minute

TEMPERATURE RATING:

Operation Temperature: -25°C ~ +105°C

PACKAGING:

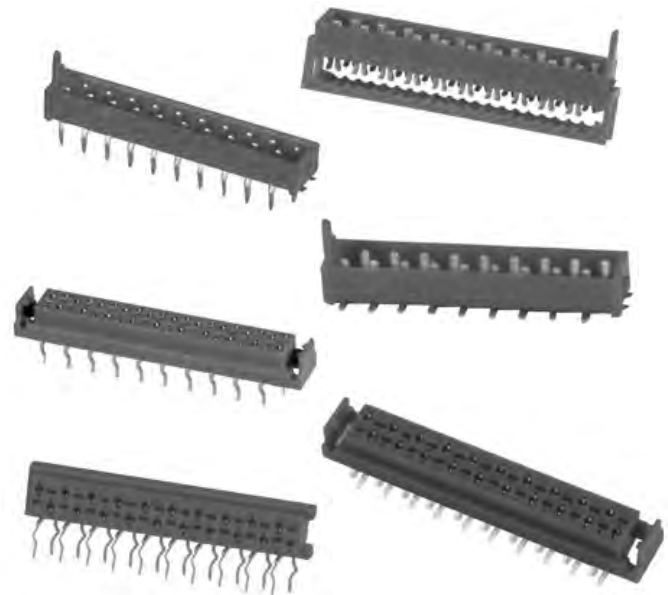
Anti ESD plastic trays or Tubes

SAFETY AGENCY APPROVALS:

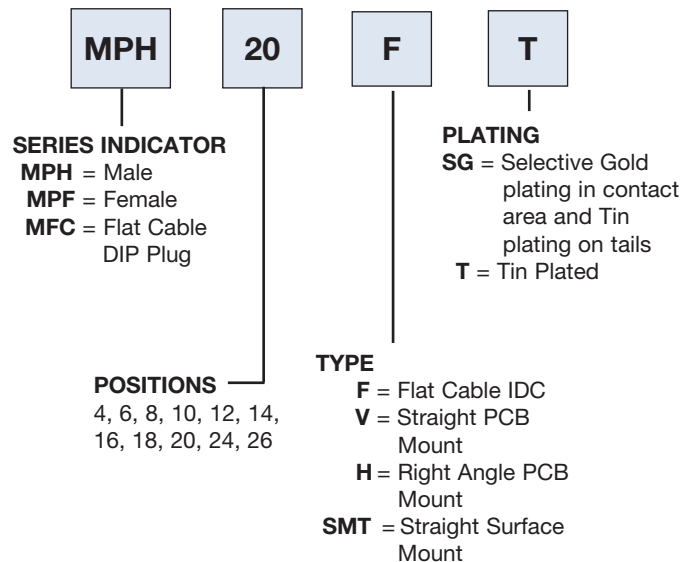
UL Recognized

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION



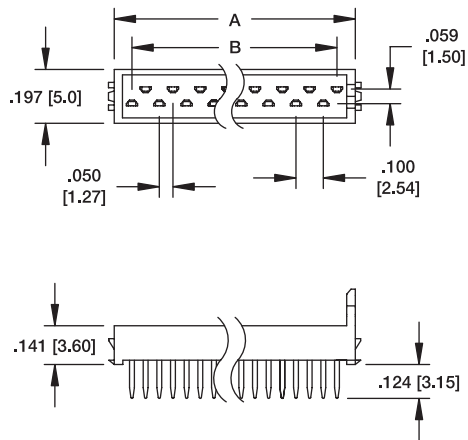
OPTIONS

15 = 15u" Gold on contact area
30 = 30u" Gold on contact area
L = Locking Flange

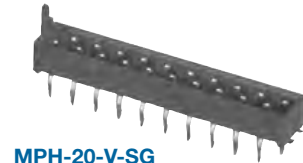
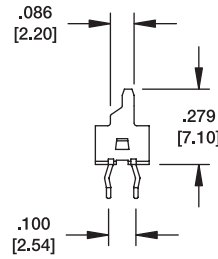


MPH

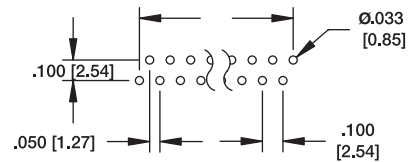
PCB MALE HEADER



A = $.050 [1.27] \times \text{\# of positions} + .120 [3.05]$
 B = $.050 [1.27] \times \text{\# of spaces}$



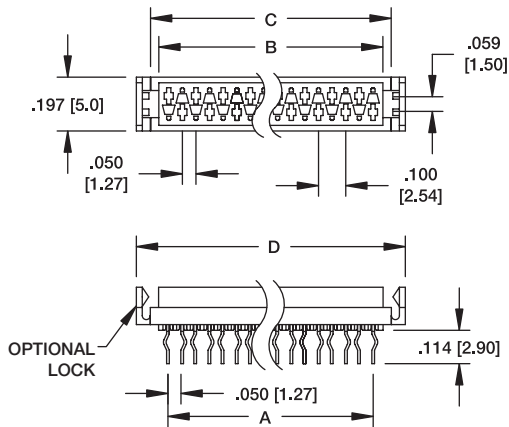
MPH-20-V-SG



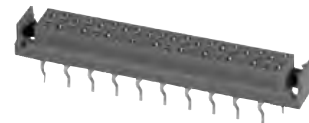
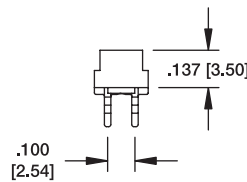
Recommended PCB Layout

MPF

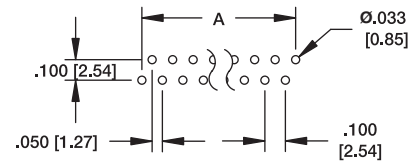
PCB FEMALE HEADER



A = $.050 [1.27] \times \text{\# of spaces}$
 B = $.050 [1.27] \times \text{\# of positions} + .020 [0.52]$
 C = $.050 [1.27] \times \text{\# of positions} + .078 [2.00]$
 D = $.050 [1.27] \times \text{\# of positions} + .181 [4.60]$



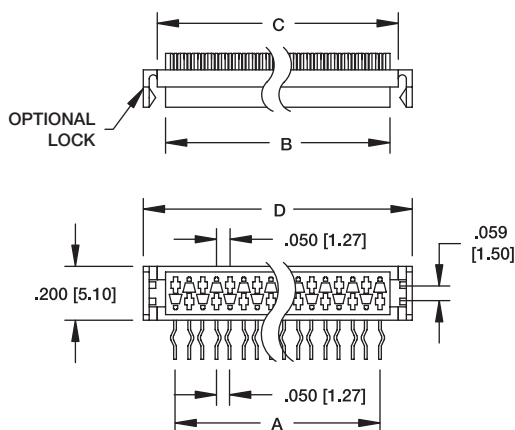
MPF-20-V-SG-L



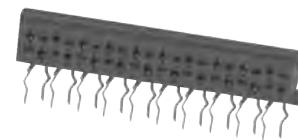
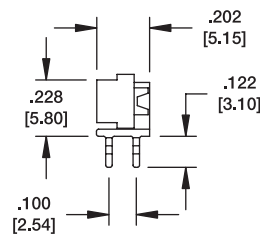
Recommended PCB Layout

MPF

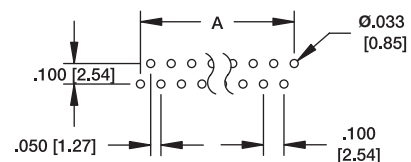
PCB FEMALE HEADER RIGHT ANGLE



A = $.050 [1.27] \times \text{\# of spaces}$
 B = $.050 [1.27] \times \text{\# of positions} + .020 [0.52]$
 C = $.050 [1.27] \times \text{\# of positions} + .078 [2.00]$
 D = $.050 [1.27] \times \text{\# of positions} + .181 [4.60]$

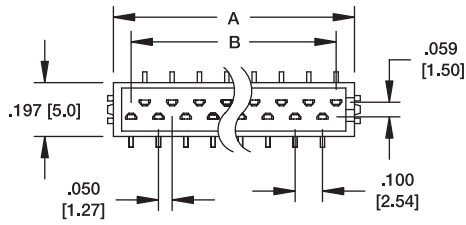


MPF-20-H-SG

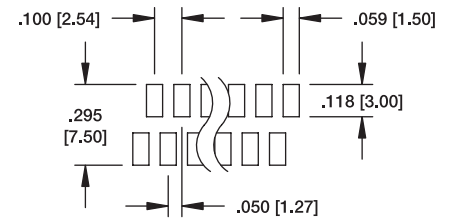
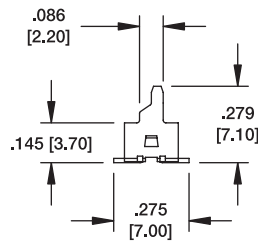
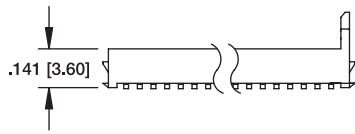


Recommended PCB Layout

MPH PCB MALE HEADER SMT



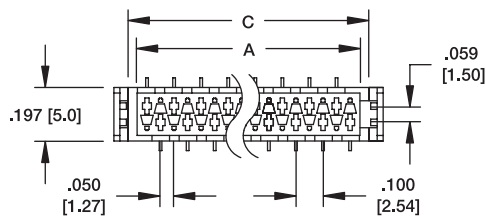
MPH-20-SMT-SG



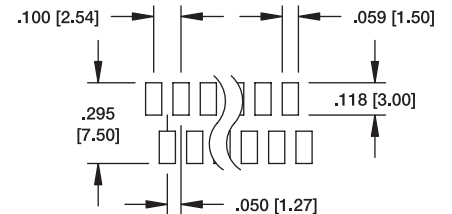
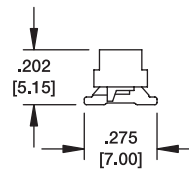
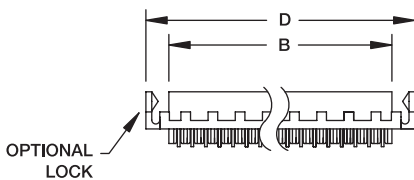
Recommended PCB Layout

A = $.050 [1.27] \times \text{\# of positions} + .120 [3.05]$
 B = $.050 [1.27] \times \text{\# of spaces}$

MPF PCB FEMALE HEADER SMT



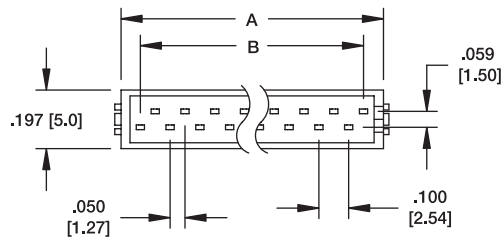
MPF-20-SMT-SG



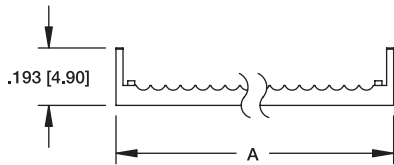
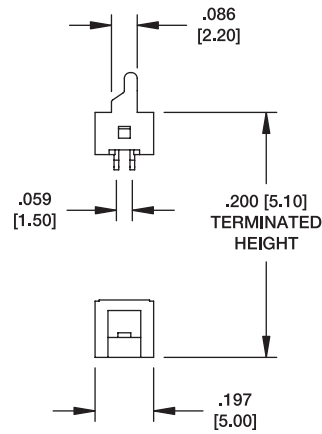
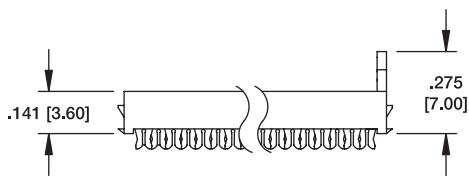
Recommended PCB Layout

A = $.050 [1.27] \times \text{\# of spaces}$
 B = $.050 [1.27] \times \text{\# of positions} + .020 [0.52]$
 C = $.050 [1.27] \times \text{\# of positions} + .078 [2.00]$
 D = $.050 [1.27] \times \text{\# of positions} + .181 [4.60]$

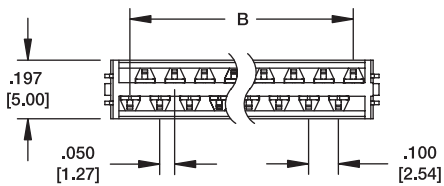
MPH IDC MALE PLUG



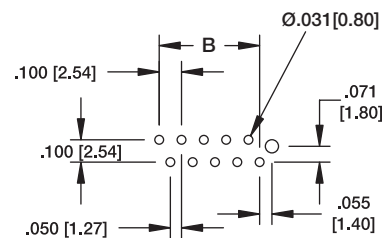
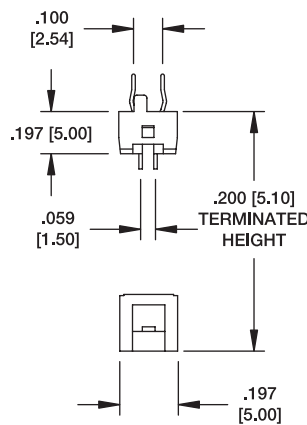
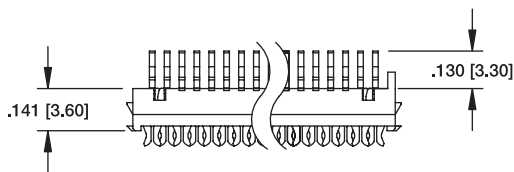
MPH-20-F-SG



MFC FLAT CABLE TO PCB PLUG



MFC-20-F-SG



Recommended PCB Layout

A = .050 [1.27] X # of positions + .120 [3.05]
 B = .050 [1.27] X # of spaces

INTRODUCTION:

Adam Tech's Memory Connector series is a complete range of memory sockets for most memory card applications including Compact Flash, PCMCIA, Memory Stick and Secure Digital. Our advanced designs are focused on their ease of use, mating accuracy, card retention and cycle life. Precision engineered, extremely durable mating contacts and PCB leads contribute to a solid, high reliability, long life design.

FEATURES:

Multitude of sockets to satisfy most applications
Precision, compact designs
Fine pitched, heavy duty contacts
Sockets conform to CFA, JEIDA, PCMCIA & JEDEC

MATING OPTIONS:

All industry standard memory cards

SPECIFICATIONS:

Material:

Insulator: PA9 or LCP, glass reinforced, rated UL94V-0
Contacts: Phosphor Bronze
Frame / shield: Brass, nickel plated

Contact Plating:

Gold over nickel underplate on contact area, tin over copper underplate on tails.

Electrical:

Operation voltage: 250V AC max.
Current rating: 0.5 and 1 Amps max.
Contact resistance: 40 mΩ max. initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Mating durability: 10,000 cycles min.

Temperature Rating:

Operating temperature: -20°C to +85°C

PACKAGING:

Anti-ESD plastic trays

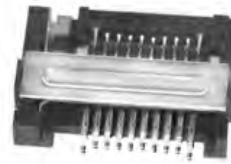
SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053

MEMORY SOCKETS

MEMORY STICK, SMART MEDIA,
SECURE DIGITAL, SIM CARD,
SMART CARD SOCKET, PCMCIA &
COMPACT FLASH SOCKETS
CF, MS AND SD SERIES

Memory Stick



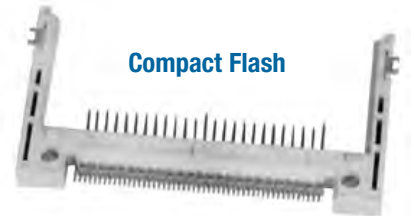
Micro Secure Digital
(Push-Push Type)



Mini Secure Digital



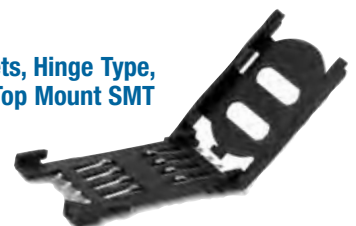
Compact Flash



Compact Flash



SIM Card Sockets, Hinge Type,
Push-Push, Top Mount SMT



MEMORY SOCKETS

MINI, MICRO & STANDARD SECURE DIGITAL COMPACT FLASH SOCKETS CF, MS AND SD SERIES


MINI & MICRO SECURE DIGITAL SOCKETS



**MINI SECURE DIGITAL
PUSH-PULL TYPE
TOP MOUNT SMT**

Mini Flash Memory Card connectors for portable devices and tight space applications


MSD SERIES



**MINI SECURE DIGITAL
PUSH-PUSH TYPE
TOP MOUNT SMT**

Mini Flash Memory Card connectors for portable devices such as digital cameras and handheld computers

MSDPR SERIES



**MICRO SECURE DIGITAL
HINGE & PUSH-PUSH OR PUSH-PULL TYPES
TOP MOUNT SMT**

Micro Flash Memory Card connectors
Extremely compact & Ultra miniature
Push-push and hinge types with smooth and slow extraction

MCSP SERIES


SECURE DIGITAL



**SECURE DIGITAL
PUSH-PUSH TYPE
TOP MOUNT SMT**

Flash Memory Card connector
Available Shielded and with normal or reverse normal mount and/or locating pegs


SDP SERIES



**SECURE DIGITAL,
PUSH-PULL TYPE,
TOP MOUNT SMT**

Flash Memory Card connector
Available Shielded and with normal or reverse normal mount and/or locating pegs

SD SERIES



**SECURE DIGITAL
PUSH-PULL TYPE
TOP MOUNT SMT**

Flash Memory Card connector
Unshielded, reverse normal mount with/without locating pegs


SD SERIES

COMPACT FLASH SOCKETS

50 PIN SLIM TYPE

**COMPACT FLASH
TYPE II, SHORT SLIDE
TOP MOUNT SMT**


Type II card connectors in broad range of styles with multiple profiles and slide options



CF SERIES



**COMPACT FLASH
SLIM TYPE I/II
TOP MOUNT SMT**

Type I & II card connector in broad range of styles with multiple profiles and slide options




CF SERIES

COMPACT FLASH SOCKETS

 <p>COMPACT FLASH TYPE I SHORT SLIDE TOP MOUNT SMT 50 PIN</p> <p>Type I card connector in broad range of styles with multiple profiles and slide options</p> <p>CF SERIES</p>	 <p>COMPACT FLASH TYPE I EJECTOR</p> <p>CF card ejector for headers with short guides, standard Compact Flash Type I applications</p> <p>CF SERIES</p>
--	--


COMPACT FLASH SOCKETS STRADDLE MOUNT & SURFACE MOUNT



**COMPACT FLASH FEMALE SOCKET
STRADDLE MOUNT 50 PIN**

CF straddle mount connector for 50 pin CF cards to PC card adapters, meets CFA standards

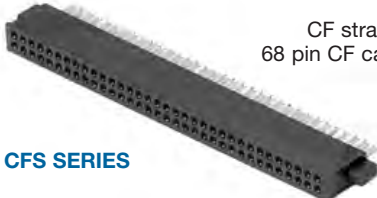
CFS SERIES



**COMPACT FLASH FEMALE SOCKET
SURFACE MOUNT 50 PIN**

CF SMT connector for 50 pin CF card adapters, meets CFA standards

CFS SERIES




**COMPACT FLASH FEMALE SOCKET,
STRADDLE MOUNT 68 PIN**

CF straddle mount connector for 68 pin CF cards to PC card adapters, meets CFA standards

CFS SERIES


MEMORY STICK & SIM CARD SOCKET



**MICRO MEMORY STICK
PUSH-PUSH OR PUSH-PULL
TOP MOUNT SMT**

Wide range of connectors for Small Form Factor storage in media applications

MMSP SERIES



**MEMORY STICK
TOP MOUNT SMT**

Smart Card connector for PCB host applications, mini & micro types available

MS SERIES



**SIM CARD SOCKETS
HINGE TYPE
PUSH-PUSH
TOP MOUNT SMT**

Smart Card connectors for PCB host applications, mini & micro types available

SCC SERIES

INTRODUCTION:

Adam Tech 0.8mm and 1.00mm Pin Header and Female Header series is a fine pitch, low profile, dual row, PCB mounted connector set intended for limited space applications or where total weight is a factor. Our specially tooled insulators and contacts maintain consistent high quality through our automated production processes. Each series is available in thru-hole PCB or SMT mounting and plated tin, gold or selective gold as specified.

FEATURES:

0.8mm and 1.0mm versions
Pin Header and Female Header set
Lightweight and Compact
Hi Temp Insulators

MATING OPTIONS:

Mates with all industry standard 0.8mm & 1.0mm pitch headers and female headers

SPECIFICATIONS:

Material:

Standard Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

Plating:

U = Gold over nickel underplate
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall.

Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Mating durability: 500 cycles min.

Temperature Ratings:

Operating temperature: -40°C to +105°C
Max process temp: 230°C for 30 ~ 60 seconds
(260°C for 10 seconds)
Soldering process temperature: 260°C

PACKAGING:

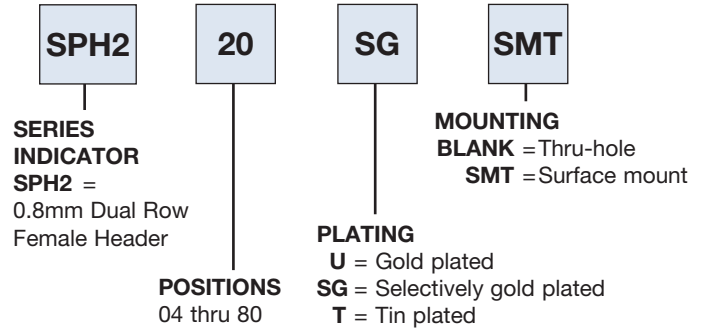
Anti-ESD plastic bags or tubes

APPROVALS AND CERTIFICATIONS:

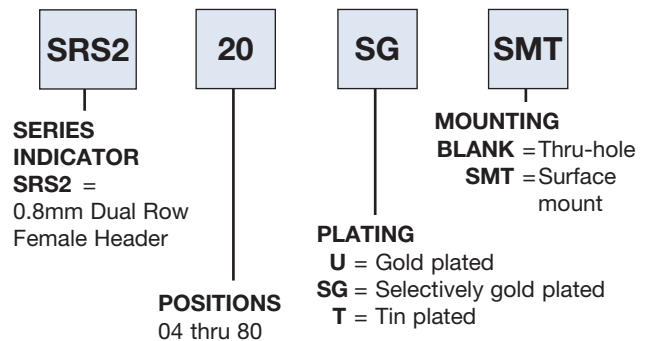
UL Recognized File no. E224053



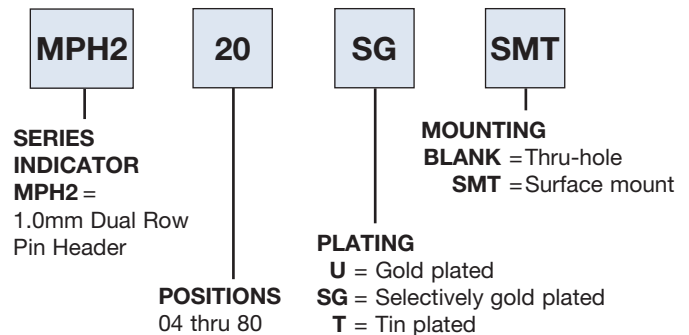
0.8mm MALE ORDERING INFORMATION



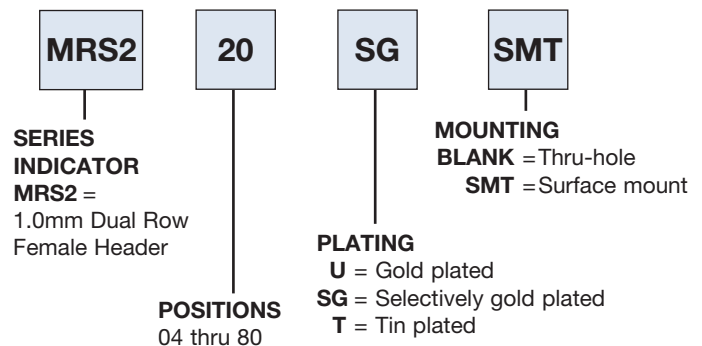
0.8mm FEMALE ORDERING INFORMATION



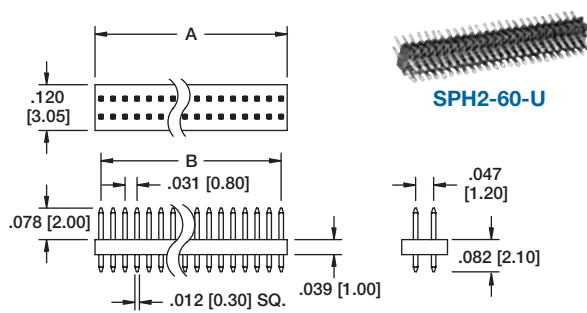
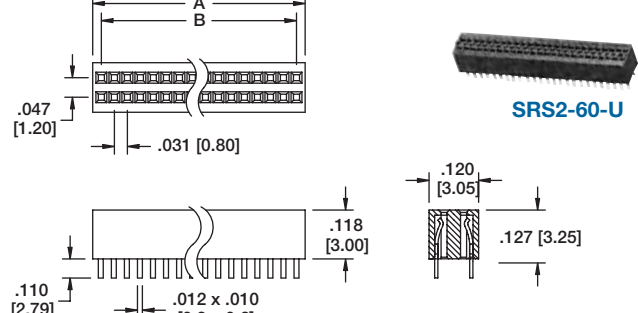
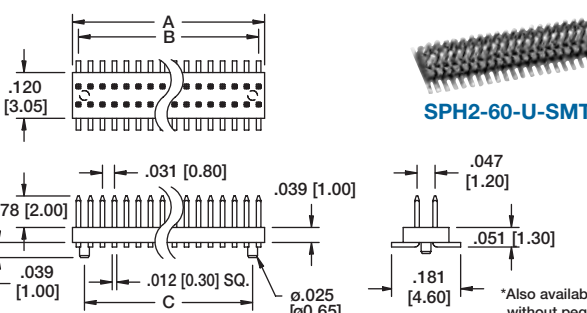
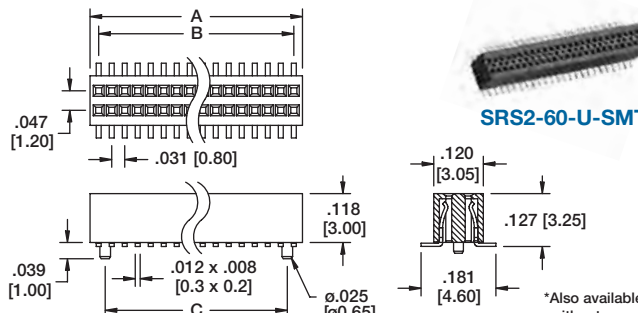
1.0mm MALE ORDERING INFORMATION



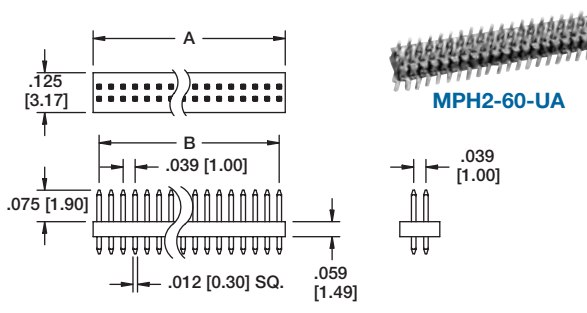
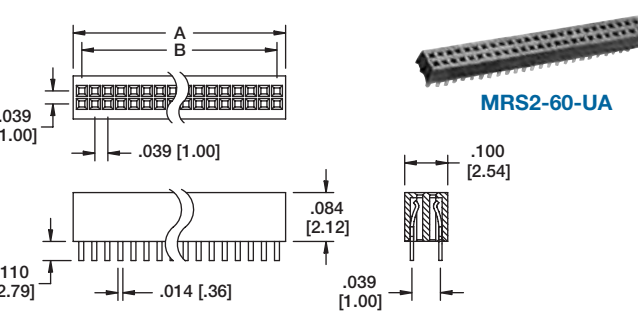
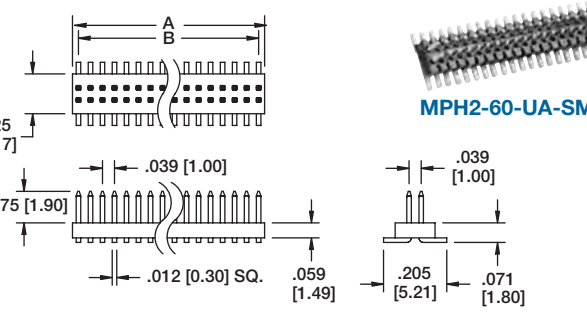
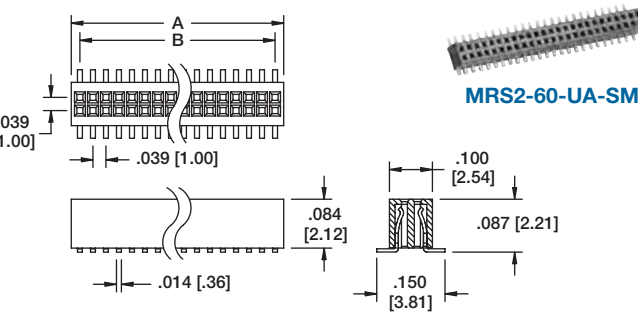
1.0mm FEMALE ORDERING INFORMATION



0.8mm SUB-MICRO HEADERS

 <p>SPH2-60-U</p> <p>0.8mm Male Header SPH2 Series</p> <p>A = .031 [.80] X No of Positions Per Row B = .031 [.80] X No of Spaces Per Row</p>	 <p>SRS2-60-U</p> <p>0.8mm Female Header SRS2 Series</p> <p>A = .031 [.80] X No of Positions Per Row B = .031 [.80] X No of Spaces Per Row</p>
 <p>SPH2-60-U-SMT</p> <p>0.8mm SMT Male Header SPH2 SMT Series</p> <p>A = .031 [.80] X No of Positions Per Row B = .031 [.80] X No of Spaces Per Row C = .031 [.80] X No of Spaces - 1</p> <p>*Also available without peg</p>	 <p>SRS2-60-U-SMT</p> <p>0.8mm SMT Female Header SRS2 SMT Series</p> <p>A = .031 [.80] X No of Positions Per Row B = .031 [.80] X No of Spaces Per Row C = .031 [.80] X No of Spaces - 1</p> <p>*Also available without peg</p>

1.0mm MICRO HEADERS

 <p>MPH2-60-UA</p> <p>1.0mm Male Header MPH2 Series</p> <p>A = .039 [1.00] X No of Positions Per Row B = .039 [1.00] X No of Spaces Per Row</p>	 <p>MRS2-60-UA</p> <p>1.0mm Female Header MRS2 Series</p> <p>A = .039 [1.00] X No of Positions Per Row B = .039 [1.00] X No of Spaces Per Row</p>
 <p>MPH2-60-UA-SMT</p> <p>1.0mm SMT Male Header MPH2-SMT Series</p> <p>A = .039 [1.00] X No of Positions Per Row B = .039 [1.00] X No of Spaces Per Row</p>	 <p>MRS2-60-UA-SMT</p> <p>1.0mm SMT Female Header MRS2-SMT Series</p> <p>A = .039 [1.00] X No of Positions Per Row B = .039 [1.00] X No of Spaces Per Row</p>

INTRODUCTION:

Adam Tech .050" HPH Series Pin Headers are fine pitched, low profile, PCB mounted pin headers intended for limited space applications or where overall size is a factor. Our specially tooled insulators and contacts offer consistent high quality through automated production processes. This series offers an extensive range of single, dual and stacked versions. Each is available in thru-hole PCB or SMT mounting with choice of tin, gold or selective gold plating.

FEATURES:

- Single and Dual Row
- Stacked, Thru-Hole and SMT mounting
- Pin Header and Female Header sets
- Lightweight and Compact
- Hi Temp Insulator available
- Choice of plating

MATING OPTIONS:

Mates with all industry standard .050" [1.27mm] pitch female headers designed for use with 0.4mm Sq. pins and Low profile receptacle

SPECIFICATIONS:

Material:

Standard Hi-Temp insulator: Nylon 6T or Nylon 46, rated UL94V-0
Insulator Color: Black
Contacts: Brass or Phosphor Bronze

Plating:

- U = Gold over nickel underplate overall
- SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
- T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max
Contact resistance: 20 mΩ max. Initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Mating durability: 500 Cycles min.

Temperature Rating:

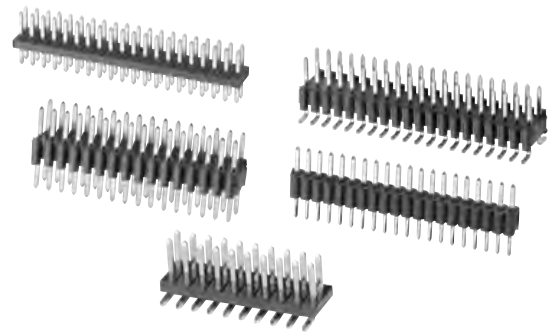
Operating temperature: -40°C to +105°C
Soldering process temperature: 260°C

PACKAGING:

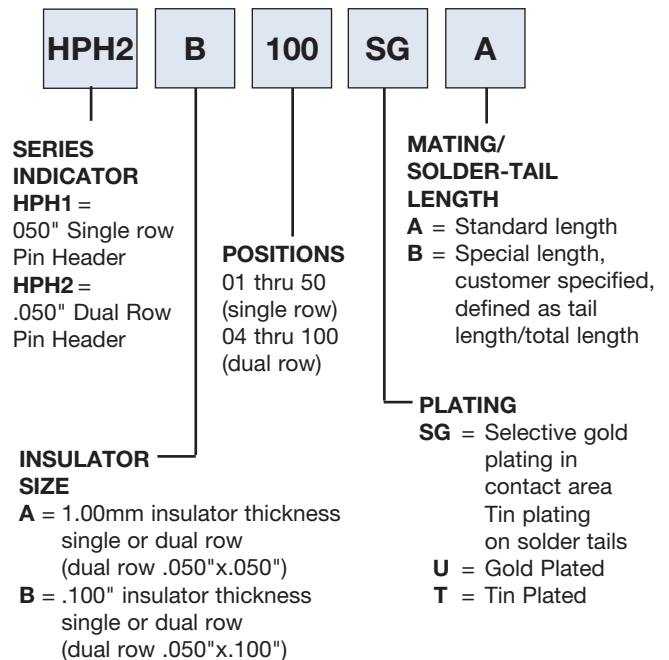
Anti-ESD plastic bags

APPROVALS AND CERTIFICATIONS:

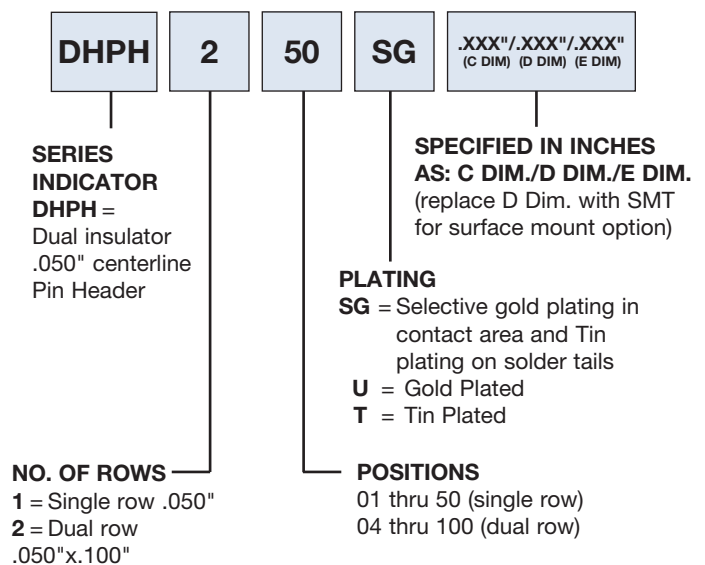
UL Recognized File no. E224053



ORDERING INFORMATION



ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number

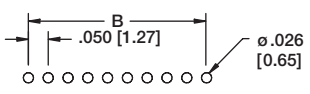
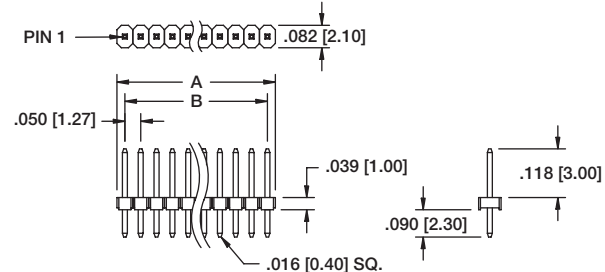

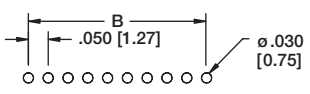
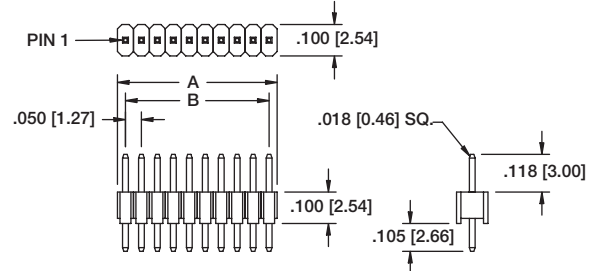

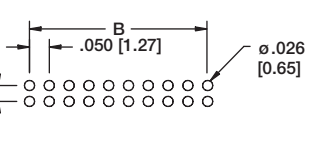
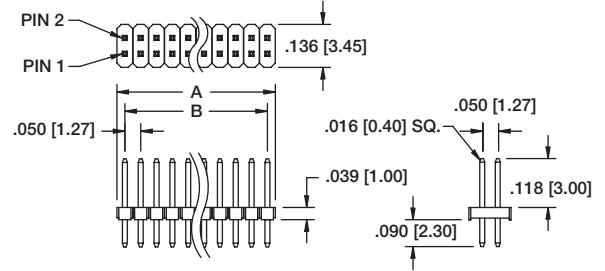
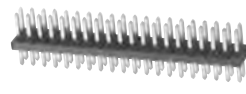
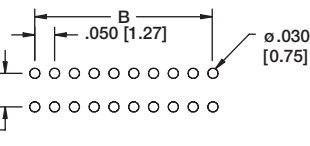
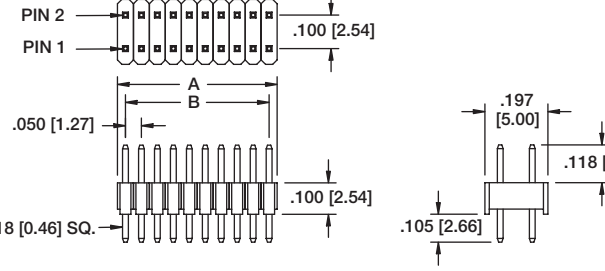

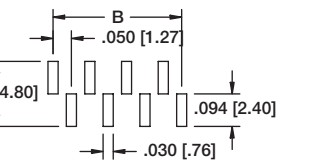
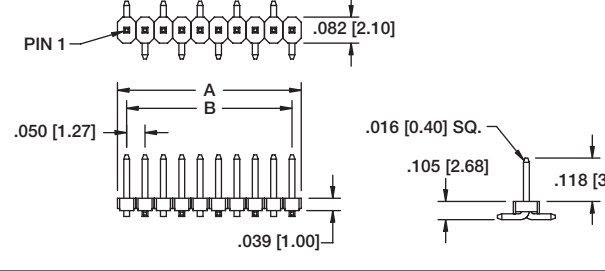

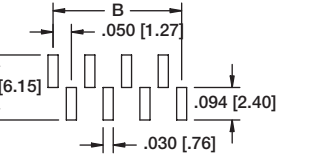
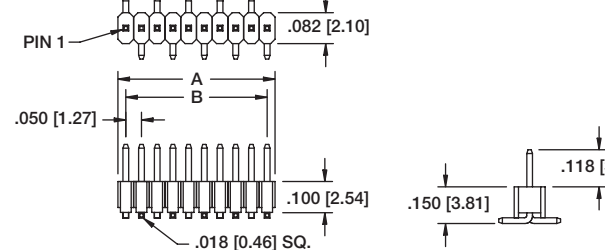

HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C
(Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)

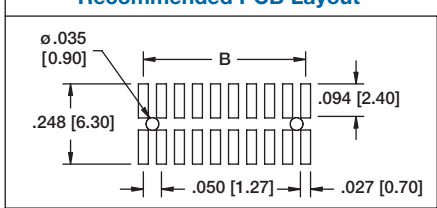
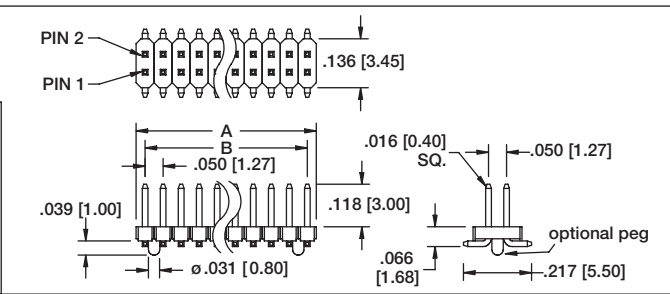

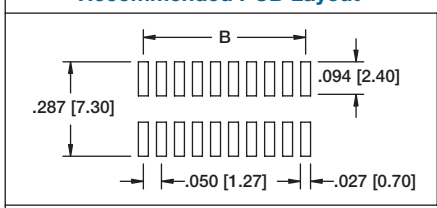
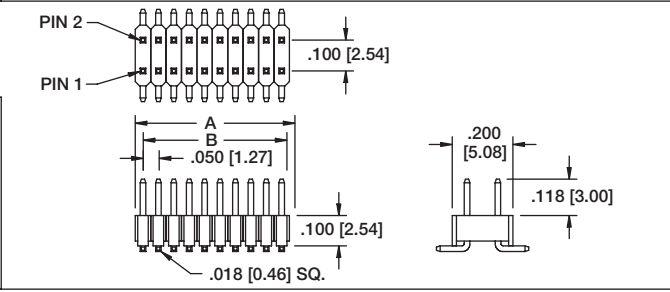

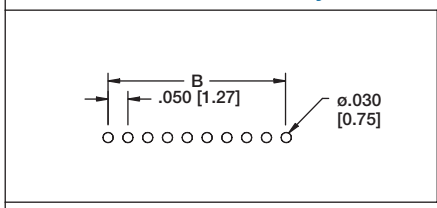
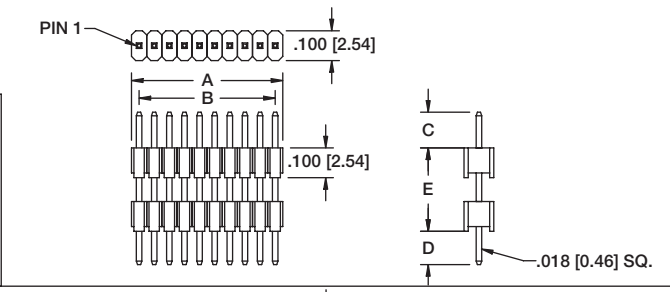

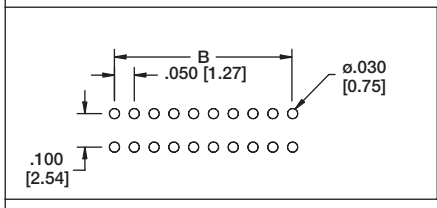
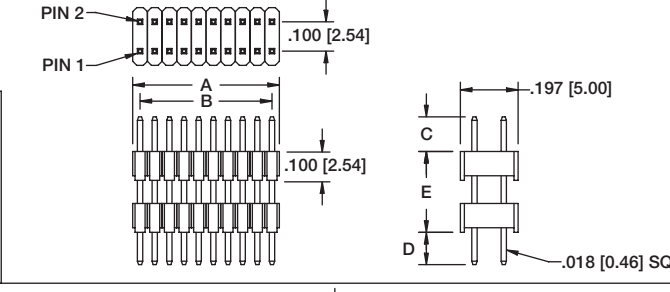

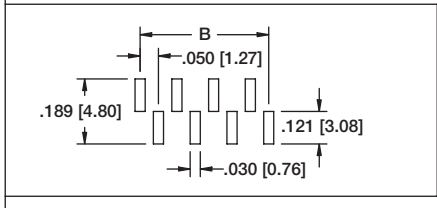
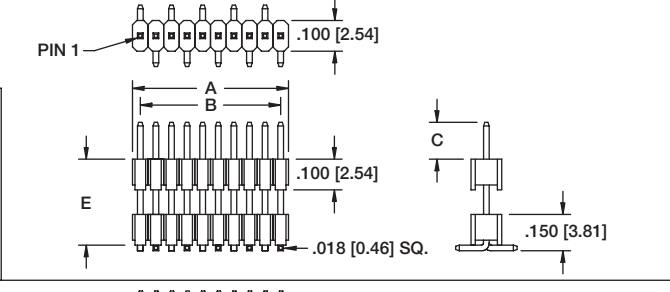

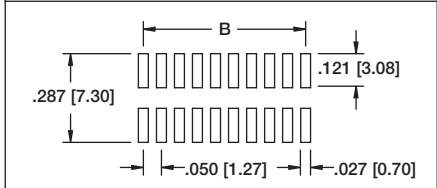
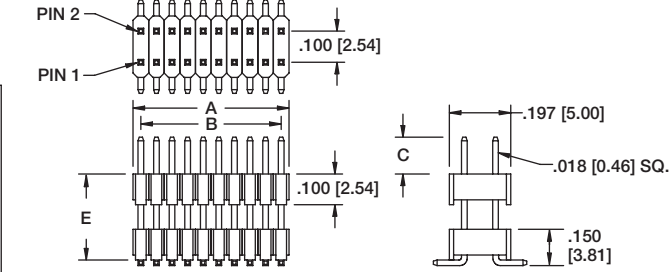

SMT = Dual Row Surface Mount leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C

SMT-A = Single Row Surface Mount Leads Type A

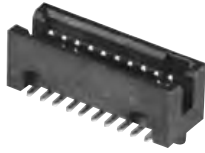
SMT-B = Single Row Surface Mount Leads Type B

P = Optional locating peg

<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>HPH1-A SINGLE ROW STRAIGHT WITH 1.00mm INSULATOR</p>  <p>HPH1-A-20-UA</p>
<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>HPH1-B SINGLE ROW STRAIGHT WITH .100" INSULATOR</p>  <p>HPH1-B-20-UA</p>
<p>A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>HPH2-A DUAL ROW STRAIGHT WITH 1.00mm INSULATOR</p>  <p>HPH2-A-40-UA</p>
<p>A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>HPH2-B DUAL ROW STRAIGHT WITH .100" INSULATOR</p>  <p>HPH2-B-40-UA</p>
<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>HPH1-A (SMT) SINGLE ROW STRAIGHT SMT WITH 1.00mm INSULATOR</p>  <p>HPH1-A-20-UA-SMT</p>
<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>HPH1-B (SMT) SINGLE ROW STRAIGHT SMT WITH .100" INSULATOR</p>  <p>HPH1-B-20-UA-SMT</p>

<p>A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>HPH2-A (SMT)</p>  <p>HPH2-A-40-UA-SMT</p> <p>Dwg. shown with optional peg</p>
<p>A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>HPH2-B (SMT)</p>  <p>HPH2-B-40-UA-SMT</p>
<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>DPH-1</p>  <p>DPH-1-20-U-.079/.079/.354</p>
<p>A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>DPH-2</p>  <p>DPH-2-32-U-.079/.079/.354</p>
<p>A = .050 [1.27] X No. of Positions B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>DPH-1 (SMT)</p>  <p>DPH-1-10-U-.079/SMT-A/.354</p>
<p>A = .050 [1.27] X No. of Positions per row B = .050 [1.27] X No. of Spaces</p> <p>Recommended PCB Layout</p> 		<p>DPH-2 (SMT)</p>  <p>DPH-2-40-U-.079/SMT/.354</p>

MALE HEADER



ORDERING INFORMATION

HSH

50

G

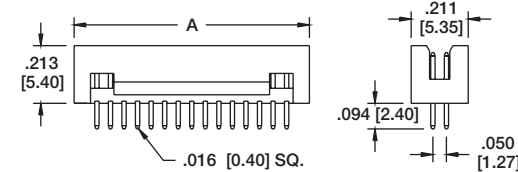
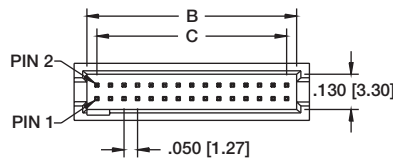
SERIES INDICATOR
HSH =
 .050" Shrouded
 Male header

TOTAL POSITIONS
 10 thru 100

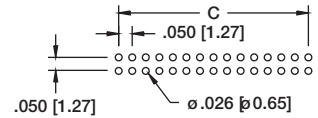
PLATING
G = Gold plated
T = Tin plated
SG = Gold plating
 in contact
 area, tin
 plated
 solder tails

OPTIONS:

- SMT** = Surface mount leads with Hi-Temp insulator
- P** = Peg option (thru hole only)



Recommended PCB Layout

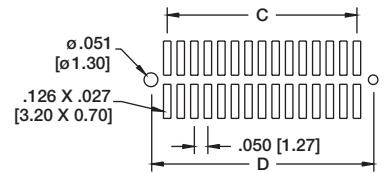
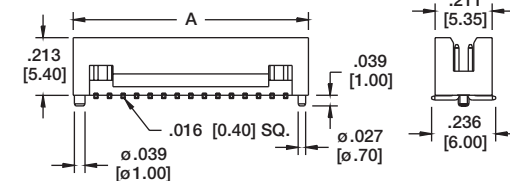
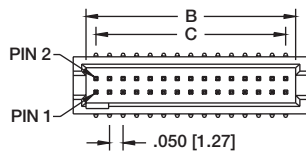


Standard: With key & without peg

A = .050 X No. of Spaces + .168 [4.27]
 B = .050 X No. of Spaces + .074 [1.87]
 C = .050 X No. of Spaces

HSH SERIES
SHROUDED MALE HEADER

Recommended PCB Layout

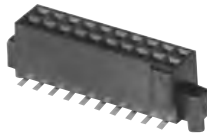


Standard: With key & with peg

A = .050 X No. of Spaces + .168 [4.27]
 B = .050 X No. of Spaces + .074 [1.87]
 C = .050 X No. of Spaces
 D = .050 X No. of Spaces + .120 [3.05]

HSH-SMT SERIES
SHROUDED MALE HEADER

FEMALE HEADER



ORDERING INFORMATION

HFH

50

G

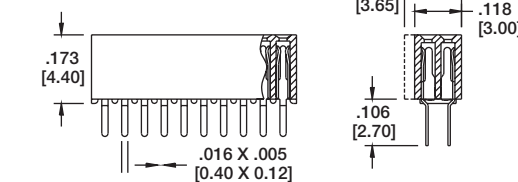
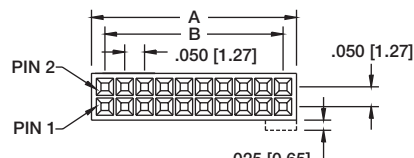
SERIES INDICATOR
HFH =
 .050" Female header

TOTAL POSITIONS
 10 thru 100

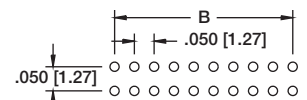
PLATING
G = Gold plated
T = Tin plated
SG = Gold plating
 in contact
 area, tin
 plated
 solder tails

OPTIONS:

- SMT** = Surface mount leads with Hi-Temp insulator
- NP** = No peg
- NK** = No Key
- P** = Peg option (thru hole only)



Recommended PCB Layout

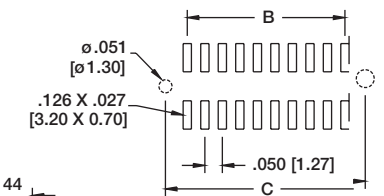
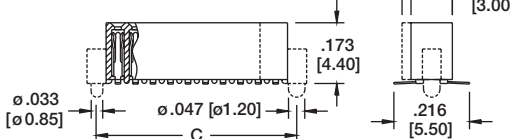
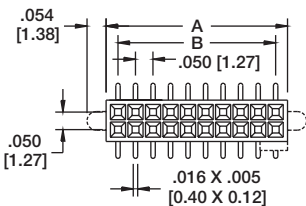


Standard: With key & without peg

A = .050 X No. of Spaces + .068 [1.73]
 B = .050 X No. of Spaces
 C = .050 X No. of Spaces + .120 [3.05]

HFH SERIES
SHROUDED FEMALE HEADER

Recommended PCB Layout



Standard: With key & with peg

A = .050 X No. of Spaces + .068 [1.73]
 B = .050 X No. of Spaces
 C = .050 X No. of Spaces + .120 [3.05]

HFH-SMT SERIES
SHROUDED FEMALE HEADER

HBHR SERIES

Adam Tech HBHR Series .050" Box Headers are fine pitched, dual row shrouded headers for use with dual row IDC female socket connectors. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Box Headers are available in Straight PCB Mount, Right Angle PCB Mount and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold. SMT versions are manufactured with a Hi-Temp insulator. Additional options include latches and custom pin lengths.

FEATURES:

- Shrouded, insulated connection
- Superior low profile design
- Slot for IDC socket Polarization bump
- Straight PCB, Right Angle PCB and SMT versions
- Gold, Tin or Selective Gold plating
- Options include Elevated types and integral latches
- Hi-Temp insulator available

MATING RECEPTACLES:

Mates with all industry standard .050" [1.27mm] pitch dual row IDC sockets

SPECIFICATIONS:

Material:

Standard insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass

Plating:

G = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Temperature Rating:

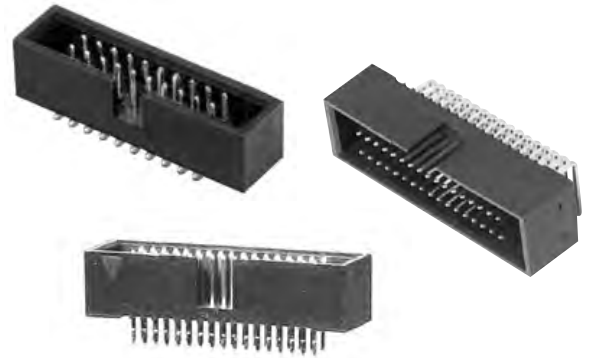
Operating temperature: -40°C to +105°C
Soldering process temperature: 260°C

PACKAGING:

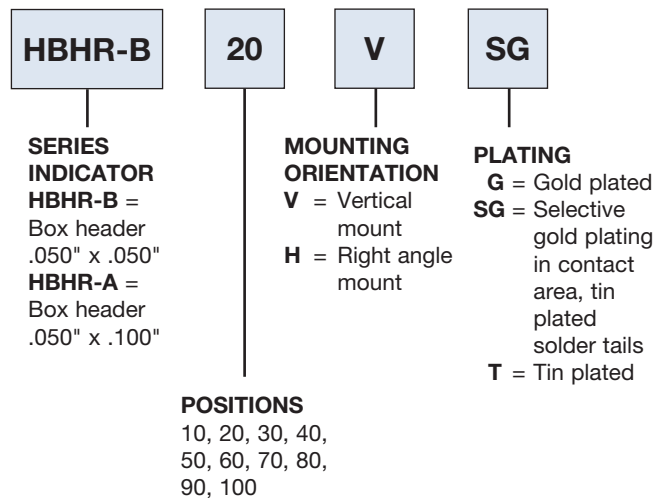
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



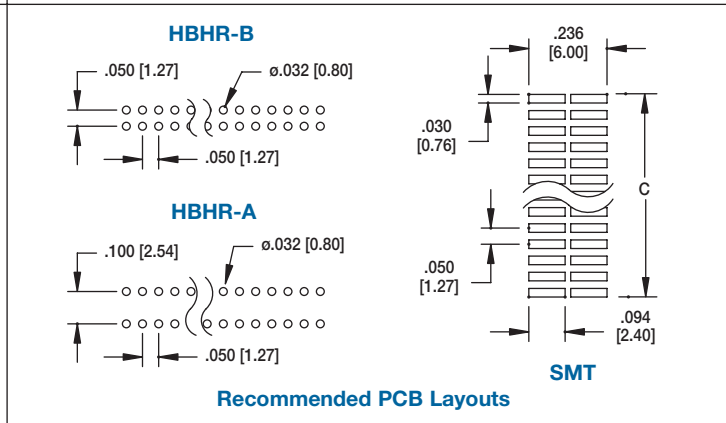
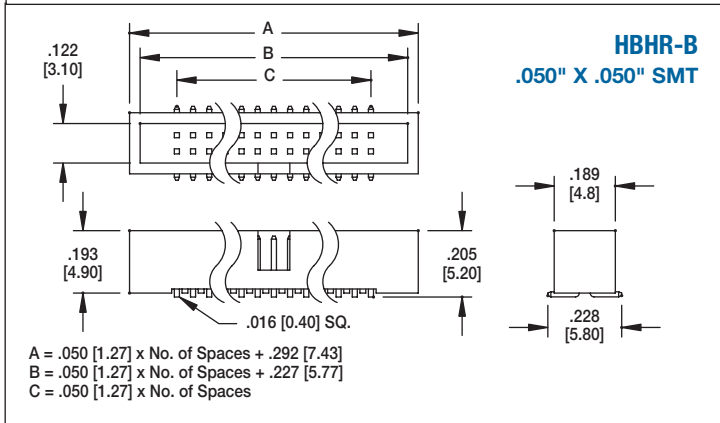
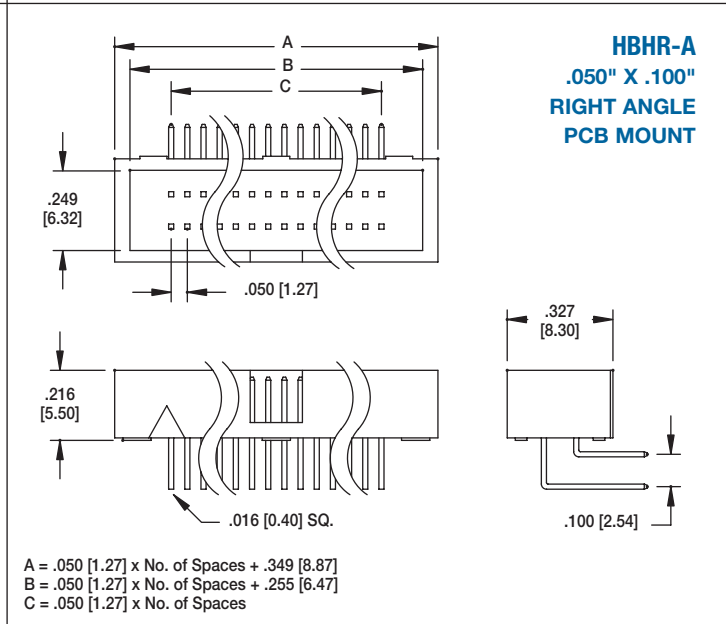
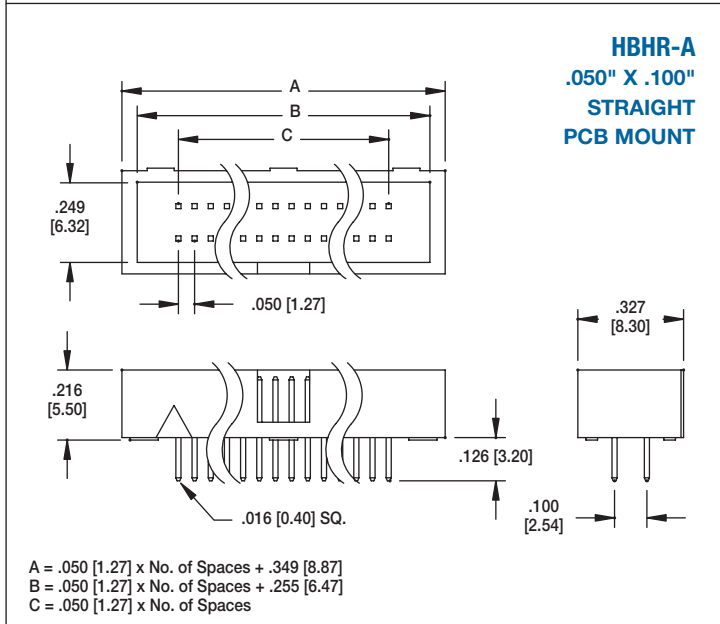
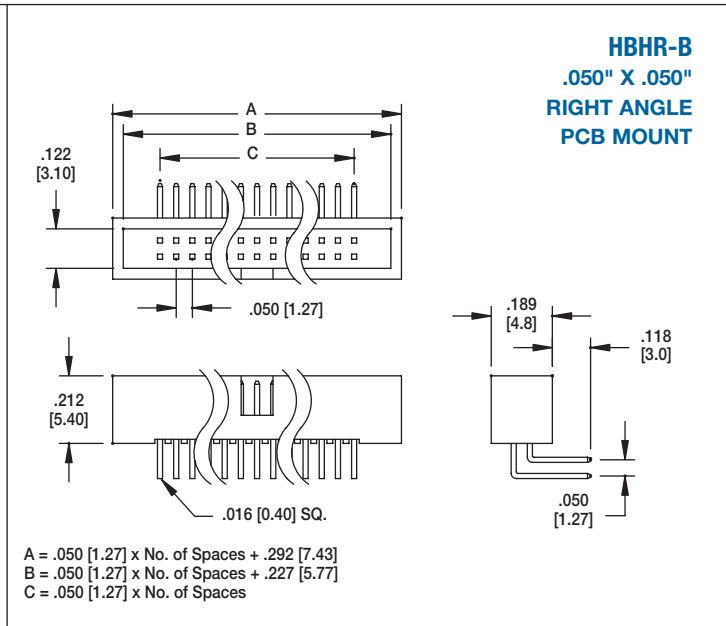
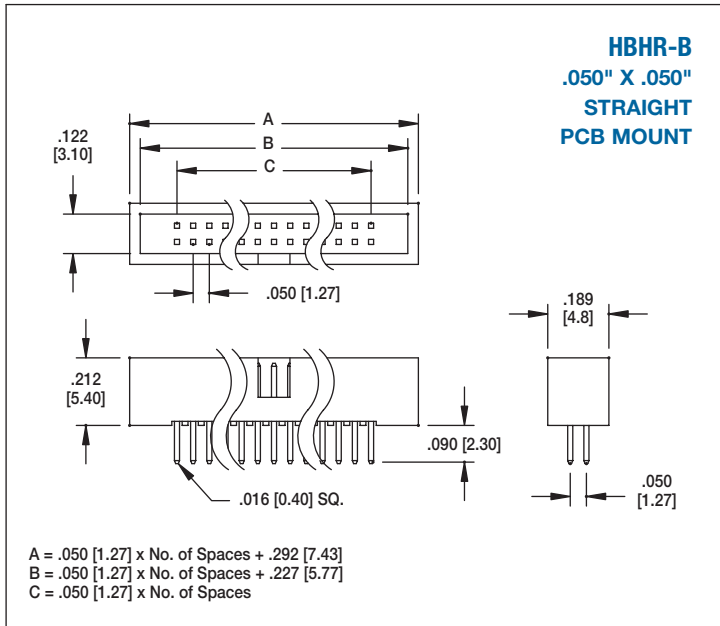
ORDERING INFORMATION

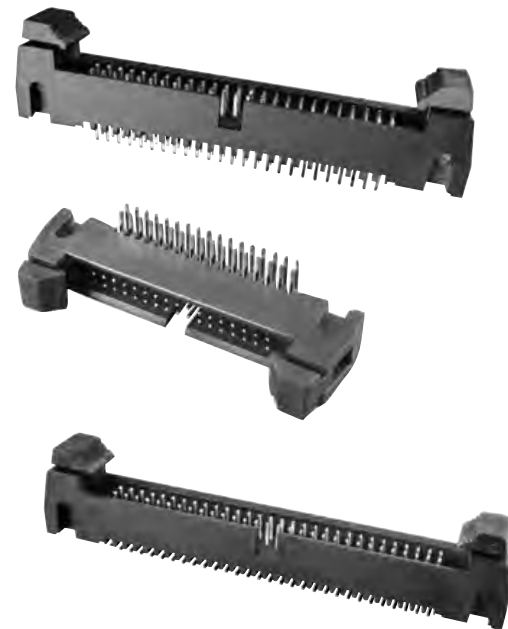


This series is available in an elevated version similar to our BHRE Series as shown on pgs. 286-287

OPTIONS:

Add designator(s) to end of part number
30 = 30 μin gold plating in contact area
SMT = Surface mount leads with Hi-Temp insulator for Hi-Temp soldering processes up to 260°C
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only.
All SMT products are manufactured with Hi-Temp insulators)





INTRODUCTION:

Adam Tech HMHR Series .050" Latch Headers are dual row, PCB mounted, shrouded headers with latches for use with dual row IDC female socket connectors. In addition to providing a shock and vibration proof connection the locking latches also act as ejectors to remove the mating socket. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Latch Headers are available in Straight PCB Mount, Right Angle PCB and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold

FEATURES:

Integral Latches provide Shock and Vibration Proof connection
Slot for IDC socket Polarization bump
Straight PCB, Right Angle PCB and SMT versions
Gold, Tin or Selective Gold plating
Elevated option available
Hi-Temp insulator available

MATING SOCKETS:

.050" X .050" & .050" X .100" Dual row IDC sockets

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0
Insulator Color: Black (Gray optional)
Contacts: Brass

Plating:

U = Gold over nickel underplate overall
SG = Gold over nickel on contact area,
Tin over copper underplate on tails.
T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Mating durability: 500 Cycles min.

Temperature Rating:

Operating temperature: -55°C to +105°C

PACKAGING:

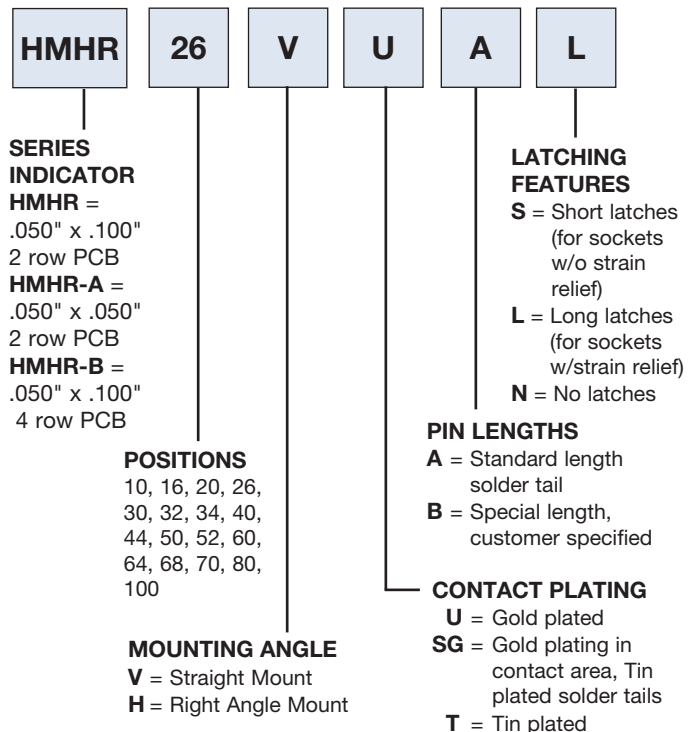
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number

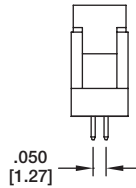
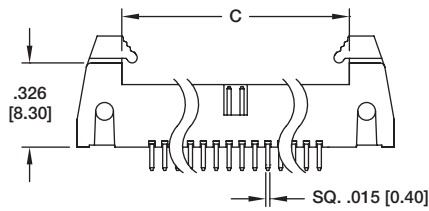
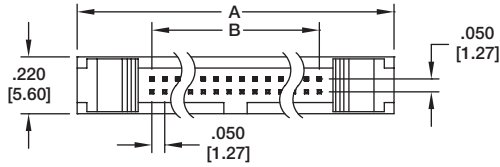
SMT = Surface mount leads Dual row with Hi-Temp insulator

HT = High-temp insulator for high-temp soldering processes

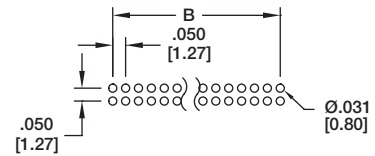
HMHR-A

.050" X .050"

STRAIGHT PCB MOUNT



HMHR-A-50-VUAS



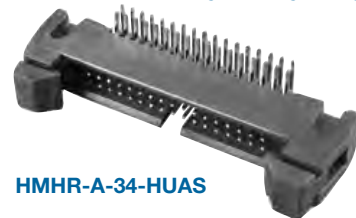
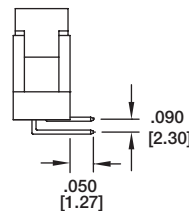
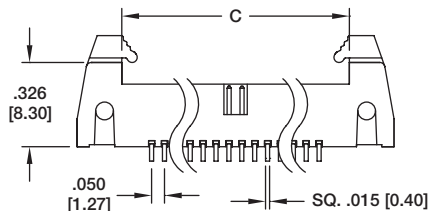
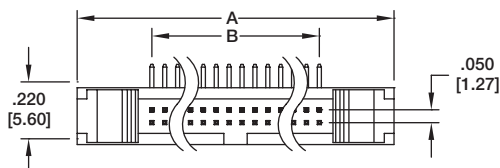
Recommended PCB Layout

A = .050 [1.27] X No. of Spaces + .233 [5.92]
 B = .050 [1.27] X No. of Spaces
 C = .050 [1.27] X No. of Spaces + .621 [15.77]

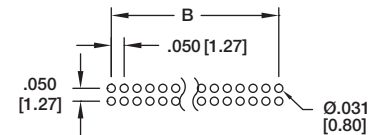
HMHR-A

.050" X .050"

RIGHT ANGLE PCB MOUNT



HMHR-A-34-HUAS



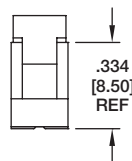
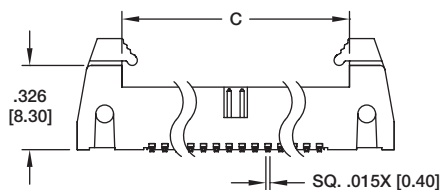
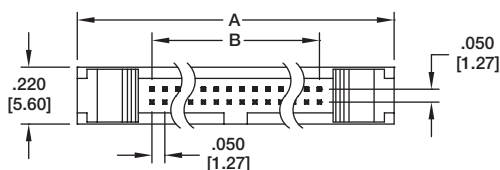
Recommended PCB Layout

A = .050 [1.27] X No. of Spaces + .233 [5.92]
 B = .050 [1.27] X No. of Spaces
 C = .050 [1.27] X No. of Spaces + .621 [15.77]

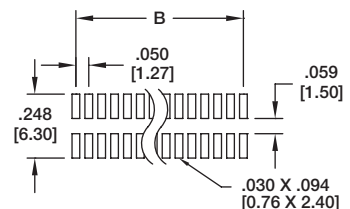
HMHR-A

.050" X .050"

VERTICAL SMT



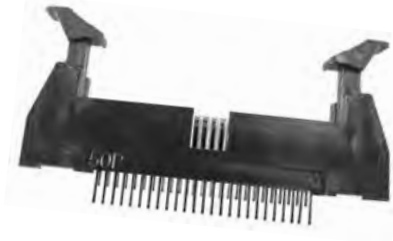
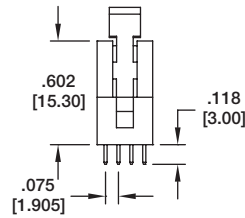
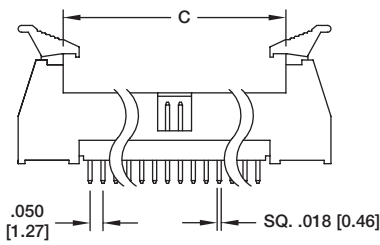
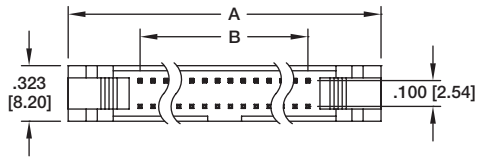
HMHR-A-60-VUAS-SMT



Recommended PCB Layout

A = .050 [1.27] X No. of Spaces + .233 [5.92]
 B = .050 [1.27] X No. of Spaces
 C = .050 [1.27] X No. of Spaces + .621 [15.77]

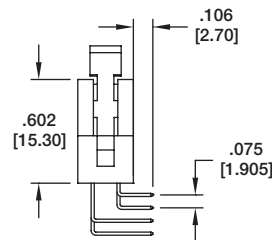
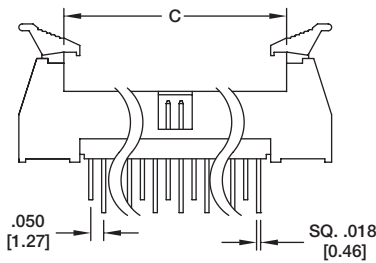
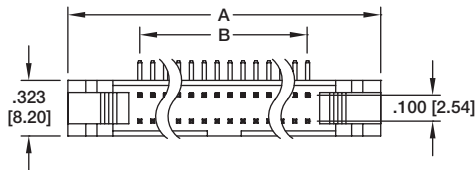
HMHR-B
.050" X .100"
STRAIGHT PCB MOUNT



HMHR-B-50-VUAL

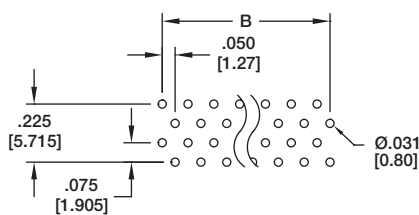
A = $.050$ [1.27] X No. of Spaces + $.306$ [7.78]
 B = $.050$ [1.27] X No. of Spaces
 C = $.050$ [1.27] X No. of Spaces + $.829$ [21.07]

HMHR-B
.050" X .100" 4 ROW
RIGHT ANGLE PCB MOUNT



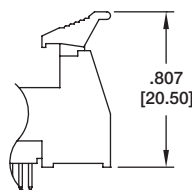
HMHR-B-60-HUAL

A = $.050$ [1.27] X No. of Spaces + $.306$ [7.78]
 B = $.050$ [1.27] X No. of Spaces
 C = $.050$ [1.27] X No. of Spaces + $.829$ [21.07]

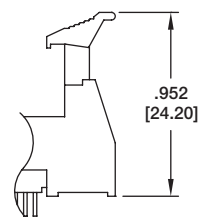


Recommended PCB Layout

Latch Options

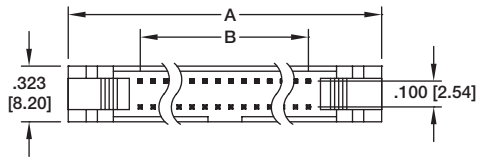


Header with Short Ejector/Latch for Sockets without Strain Reliefs

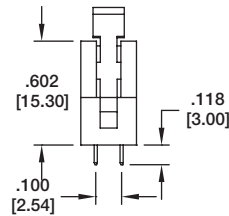
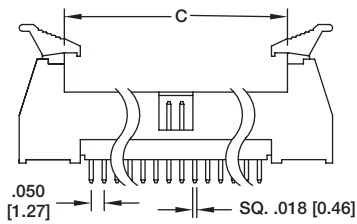


Header with Long Ejector/Latch for Sockets with Strain Reliefs

HMHR
.050" X .100"
STRAIGHT PCB MOUNT

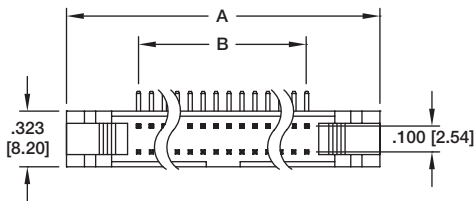


HMHR-80-VUAS

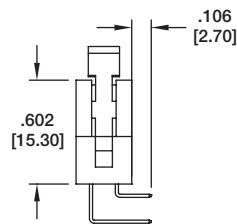
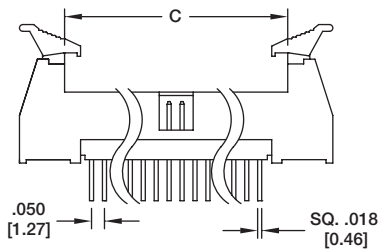


A = $.050$ [1.27] X No. of Spaces + $.306$ [7.78]
 B = $.050$ [1.27] X No. of Spaces
 C = $.050$ [1.27] X No. of Spaces + $.829$ [21.07]

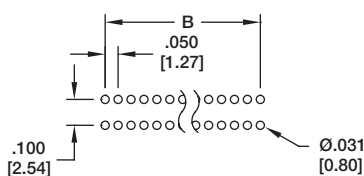
HMHR
.050" X .100"
RIGHT ANGLE PCB MOUNT



HMHR-50-HUAL

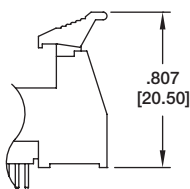


A = $.050$ [1.27] X No. of Spaces + $.306$ [7.78]
 B = $.050$ [1.27] X No. of Spaces
 C = $.050$ [1.27] X No. of Spaces + $.829$ [21.07]

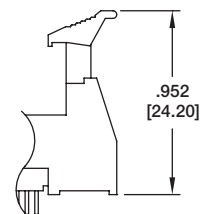


Recommended PCB Layout

Latch Options



Header with Short Ejector/Latch for Sockets without Strain Reliefs



Header with Long Ejector/Latch for Sockets with Strain Reliefs

INTRODUCTION:

Adam Tech HRS Series .050" Receptacle Strips are offered in a multitude of sizes and profiles designed to satisfy most .050" socket requirements. Available in Single and Dual rows they are offered in Straight, Right Angle, SMT, Bottom Entry and Pass Through PCB mounting styles. Each type has a specially designed contact system which produces a high normal force connection and is available with gold, tin or selective gold plating. All are available with standard or Hi-Temp thermoplastic insulators. Our SMT offering is available with optional pick and place pads and tape & reel packaging.

FEATURES:

- Broad range of sizes and profiles
- Contact systems with high normal force
- Choice of contact plating
- SMT pick & place option
- Optional Tape & reel packaging

MATING CONNECTORS:

Adam Tech HPH headers and all industry standard .050" pitch pin headers with .016" [0.4mm] square pins

SPECIFICATIONS:

Material:

Insulator: Hi-Temp insulator: Nylon 6T, rated UL94V-0
 Insulator Color: Black
 Contacts: Phosphor Bronze

Contact Plating:

G = Gold over nickel underplate overall
 SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
 T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
 Current rating: 1 Amp max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.375 lbs per contact max.
 Withdrawal force: 0.125 lbs per contact min.

Temperature rating:

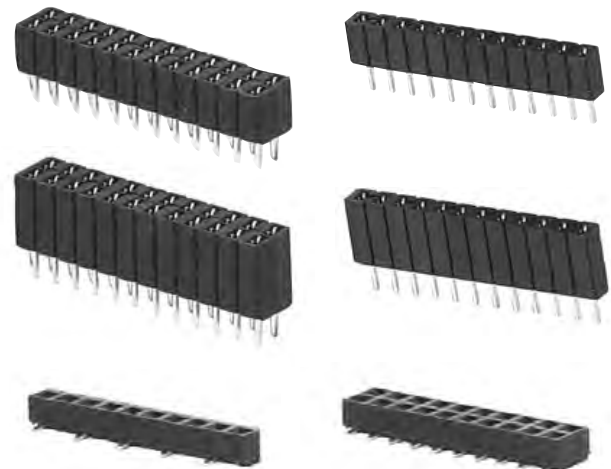
Operating temperature: -40°C to +105°C

PACKAGING:

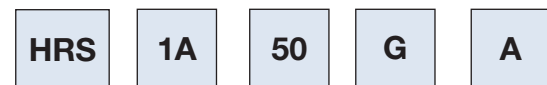
Anti-ESD trays or tubes
 (Tape and Reel optional for SMT type)

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION



SERIES INDICATOR
 HRS = .050" Receptacle Strip

NO. OF ROWS / PROFILE
1A = Single Row, Standard Profile
1B = Single Row, Low Profile
1C = Single Row, .085" Height
2A = Dual Row, Standard Profile .050"x.100"
2B = Dual Row, Low Profile .050"x.100"
2C = Dual Row, Low Profile .050"x.050"(SMT) or PCB
2F = Dual Row, Low Profile .050"x.100"(SMT)
1F = Single Row (SMT) .228" Height
1G = Single Row, .079" Height, Top Entry, (SMT)
2E = Dual Row, .134" Height .050"x.050" (SMT or PCB)
2F = Dual Row, .230" Height .050"x.100"
2G = Dual Row, .085" Height .050"x.050" (SMT)


SOLDER TAIL LENGTH
A = Standard solder tail for .062"-.125" PCB thickness
SMT = Surface mount leads (2C, 2E, 2F, 2G only)
SMT-A = Surface mount leads Type A (1F, 1G only)
SMT-B = Surface mount leads Type B (1F, 1G only)

CONTACT PLATING
G = Gold plated
T = Tin plated
SG = Gold plated contact area, tin plated solder tails

NO. OF POSITIONS
 Single Row: 02 thru 40
 Dual Row: 04 thru 80


OPTIONS:
 Add designator(s) to end of part number
30 = 30 μin gold plating in contact area
P = Guide Pegs
E = End Pegs

HRS-1B




HRS-1B-12-GA

HRS-2B




HRS-2B-24-GA

HRS-1A




HRS-1A-12-GA

HRS-2A




HRS-2A-24-GA

HRS-1G-SMT TOP ENTRY



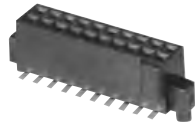
HRS-1G-10-SG-SMT-B

HRS-2G-SMT TOP ENTRY

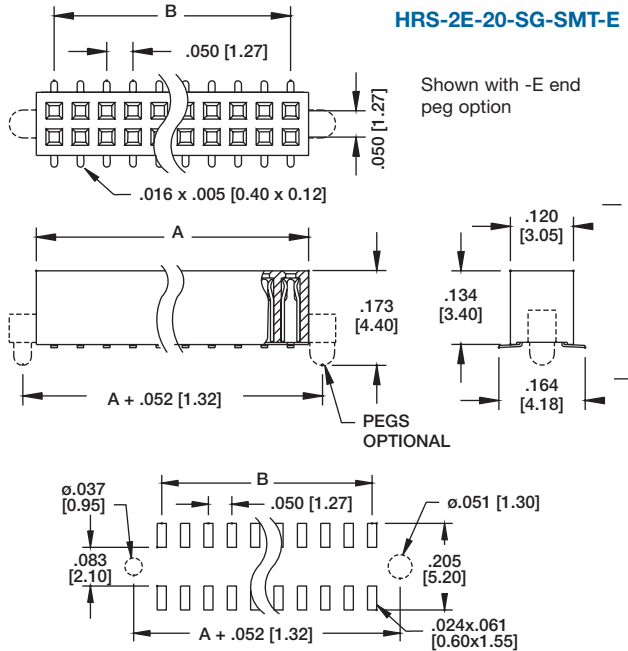


HRS-2G-20-SG-SMT-P

HRS-2E SMT W/ OPTIONAL PEG



HRS-2E-20-SG-SMT-E



Recommended PCB Layout

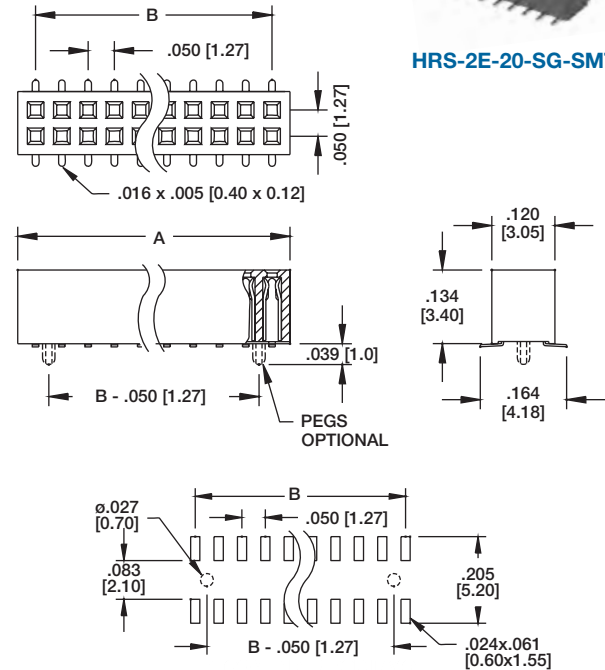
$A = .050$ [1.27] X No. of Positions per row + $.018$ [0.46]
 $B = .050$ [1.27] X No. of Spaces

HRS-2E SMT

Ordering Information pg. 294



HRS-2E-20-SG-SMT



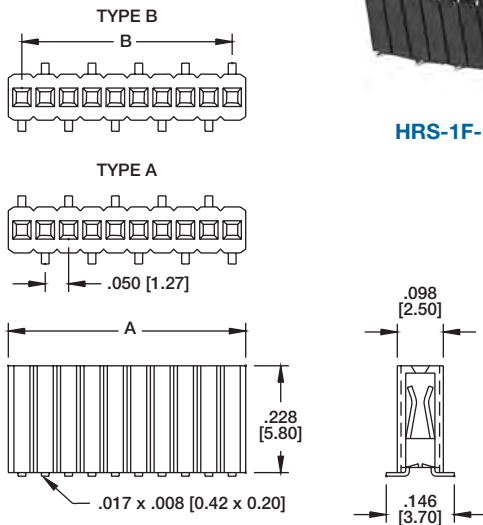
Recommended PCB Layout

$A = .050$ [1.27] X No. of Positions per row + $.018$ [0.46]
 $B = .050$ [1.27] X No. of Spaces

HRS-1F-SMT



HRS-1F-12-SG-SMT-B

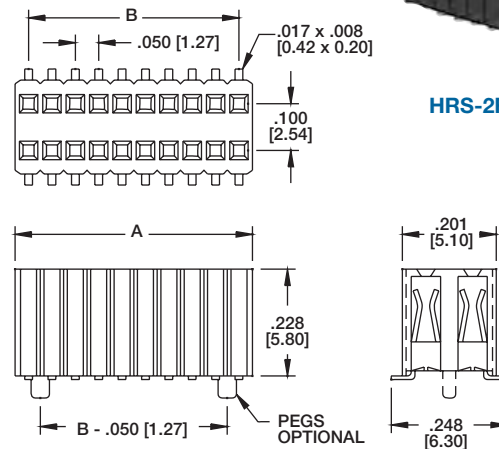


$A = .050$ [1.27] X No. of Positions + $.008$ [0.20]
 $B = .050$ [1.27] X No. of Spaces

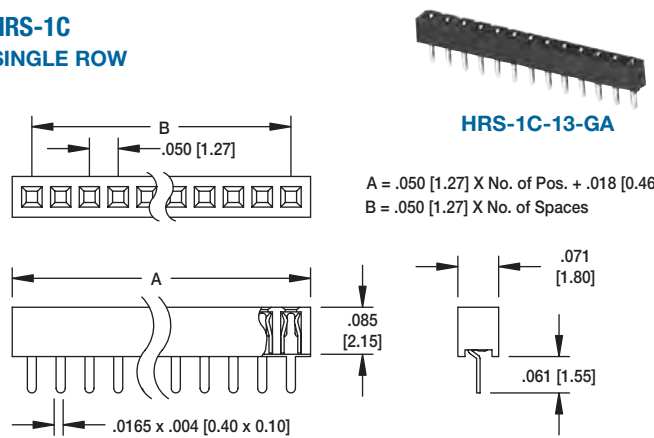
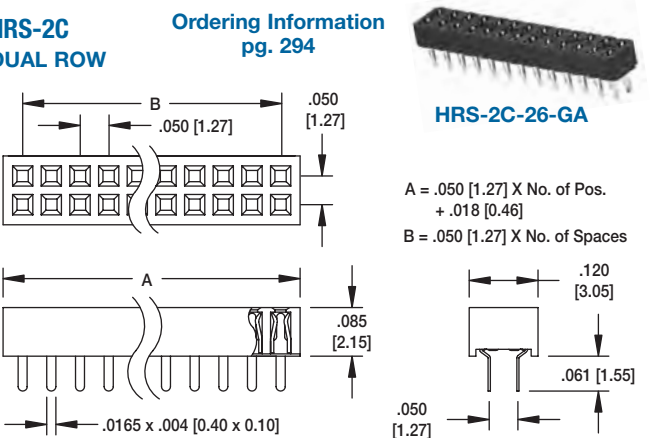
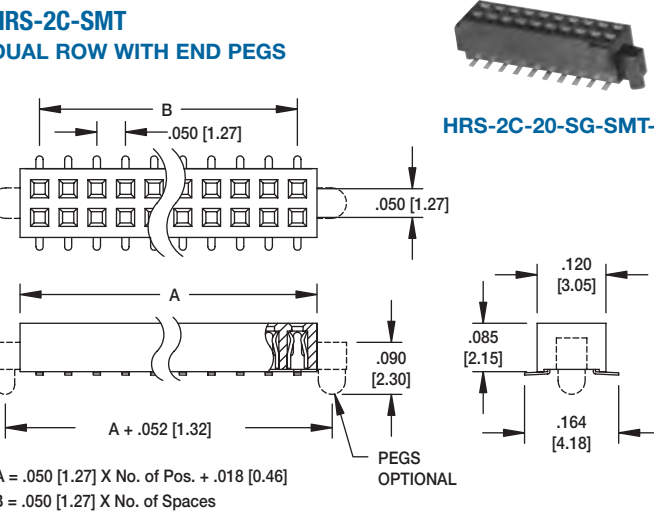
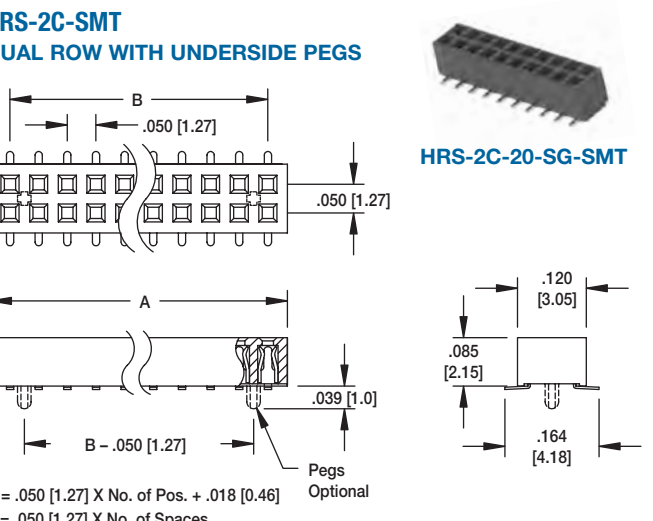
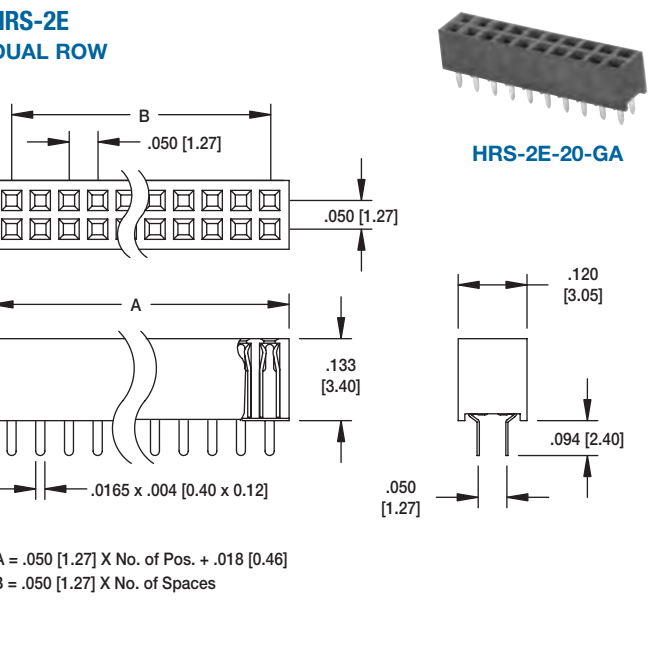
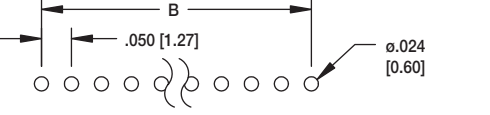
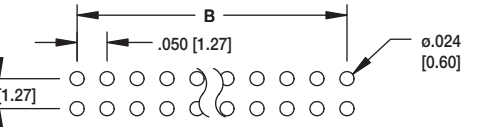
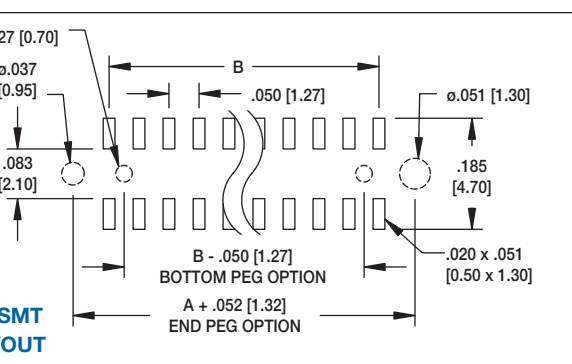
HRS-2F-SMT



HRS-2F-24-SG-SMT



$A = .050$ [1.27] X No. of Positions per row + $.008$ [0.20]
 $B = .050$ [1.27] X No. of Spaces

<p>HRS-1C SINGLE ROW</p>  <p>HRS-1C-13-GA</p> <p>A = .050 [1.27] X No. of Pos. + .018 [0.46] B = .050 [1.27] X No. of Spaces</p> <p>Dimensions: .071 [1.80], .085 [2.15], .061 [1.55], .0165 x .004 [0.40 x 0.10]</p>	<p>HRS-2C DUAL ROW</p> <p>Ordering Information pg. 294</p>  <p>HRS-2C-26-GA</p> <p>A = .050 [1.27] X No. of Pos. + .018 [0.46] B = .050 [1.27] X No. of Spaces</p> <p>Dimensions: .120 [3.05], .085 [2.15], .061 [1.55], .050 [1.27], .0165 x .004 [0.40 x 0.10]</p>
<p>HRS-2C-SMT DUAL ROW WITH END PEGS</p>  <p>HRS-2C-20-SG-SMT-E</p> <p>A = .050 [1.27] X No. of Pos. + .018 [0.46] B = .050 [1.27] X No. of Spaces</p> <p>Dimensions: .120 [3.05], .085 [2.15], .090 [2.30], .164 [4.18], .050 [1.27], .090 [2.30], .164 [4.18]</p> <p>PEGS OPTIONAL</p>	<p>HRS-2C-SMT DUAL ROW WITH UNDERSIDE PEGS</p>  <p>HRS-2C-20-SG-SMT</p> <p>A = .050 [1.27] X No. of Pos. + .018 [0.46] B = .050 [1.27] X No. of Spaces</p> <p>Dimensions: .120 [3.05], .085 [2.15], .039 [1.0], .164 [4.18], .050 [1.27], .039 [1.0]</p> <p>Pegs Optional</p>
<p>HRS-2E DUAL ROW</p>  <p>HRS-2E-20-GA</p> <p>A = .050 [1.27] X No. of Pos. + .018 [0.46] B = .050 [1.27] X No. of Spaces</p> <p>Dimensions: .133 [3.40], .094 [2.40], .050 [1.27], .0165 x .004 [0.40 x 0.12]</p>	<p>HRS-1C PCB LAYOUT</p>  <p>HRS-2C & 2E PCB LAYOUT</p>  <p>HRS-2C SMT PCB LAYOUT</p>  <p>Dimensions: $\phi.027$ [0.70], $\phi.037$ [0.95], $\phi.051$ [1.30], .083 [2.10], .185 [4.70], .020 x .051 [0.50 x 1.30]</p> <p>B - .050 [1.27] BOTTOM PEG OPTION A + .052 [1.32] END PEG OPTION</p>

INTRODUCTION

Adam Tech 2PH & D2PH Series 2.0mm Pin Headers offer a full range of fine pitched headers in a variety of configurations including Single, Dual and Three rows, Straight & Right Angle in Thru-Hole or SMT mounting. Their close tolerance .020" sq. posts are smoothly finished and taper tipped to eliminate insertion damage to the PCB or mating connector. Adam Tech 2.0mm Pin Headers can be easily cut into exact sizes as required. Options include stacked insulator versions and choice of tin, gold or selective gold plating. This series is compatible with all industry standard 2.0mm pitch mating connectors.

FEATURES:

Single, Dual or Three Row
Tin, gold or selective gold plating options
Thru-hole or SMT mounting
Stacked and Custom length versions available
Versatile Breakaway design
Hi Temp Insulator available

MATING RECEPTACLES:

Mates with all industry standard .050" pitch female headers

SPECIFICATIONS:

Material:

Standard insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black
Contacts: Brass

Plating:

U = Gold over nickel underplate overall
SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Mating durability: 1,000 cycles

Temperature Rating:

Operating temperature: -40°C to +105°C
Soldering process temperature: 260°C

PACKAGING:

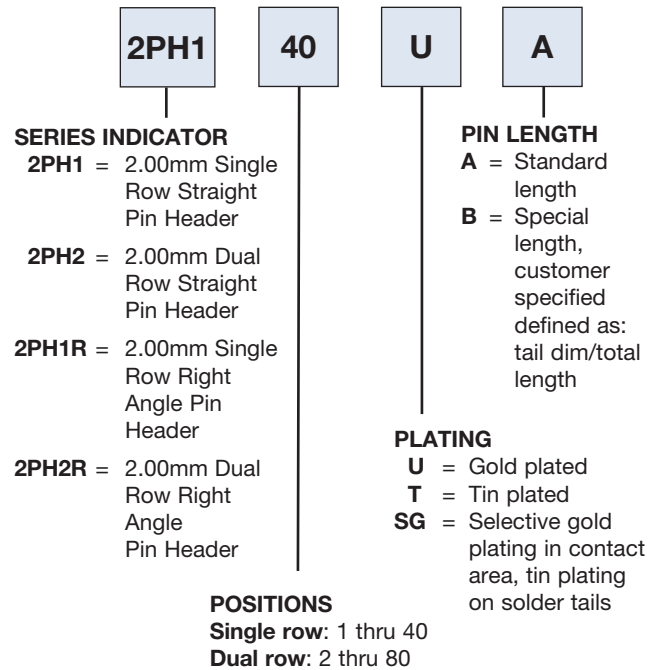
Anti-ESD plastic bags
(Tape and Reel available for SMT option)

APPROVALS AND CERTIFICATIONS:

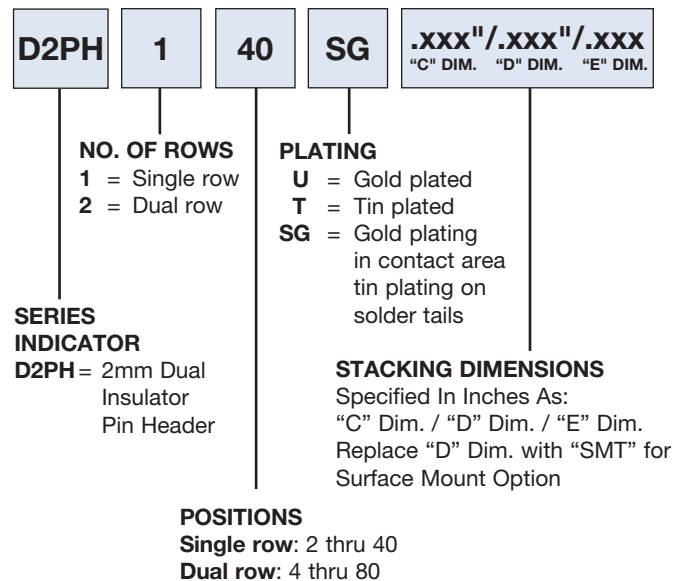
UL Recognized File no. E224053



ORDERING INFORMATION



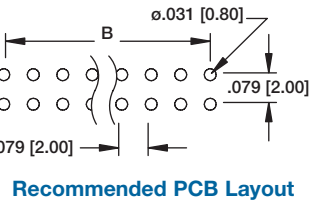
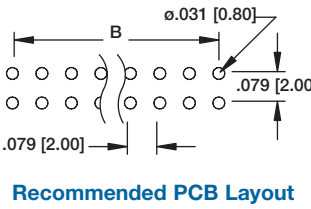
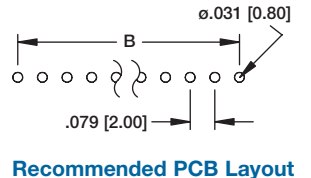
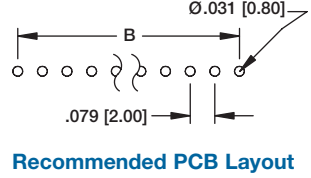
ORDERING INFORMATION DUAL INSULATOR HEADERS



OPTIONS: Add designator(s) to end of part number

- SMT = Surface Mount leads Dual Row
- SMT-A = Surface Mount leads Type A
- SMT-B = Surface Mount Leads Type B
- HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C
(Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)
- L = Low profile 1.5mm insulator thickness
- P = Locating pegs
- BR = Board retention solder tails

<p>A = .079" [2.00] x No. of positions B = .079" [2.00] x No. of spaces</p>	<p>2PH1 2PH1-16-UA</p>
<p>A = .079" [2.00] x No. of positions B = .079" [2.00] x No. of spaces</p>	<p>2PH1R 2PH1R-16-UA</p>
<p>A = .079" [2.00] x No. of positions B = .079" [2.00] x No. of spaces</p>	<p>2PH2 2PH2-32-UA</p>
<p>A = .079" [2.00] x No. of positions B = .079" [2.00] x No. of spaces</p>	<p>2PH2R 2PH2R-32-UA</p>



PIN 1

TYPE B

PIN 1

TYPE A

$A = .079" [2.00] \times \text{No. of positions}$
 $B = .079" [2.00] \times \text{No. of spaces}$

2PH1 (SMT)

2PH1-15-UA-SMT-A-L

Recommended PCB Layout

SMT-A **SMT-B**

PIN 2

PIN 1

$A = .079" [2.00] \times \text{No. of positions}$
 $B = .079" [2.00] \times \text{No. of spaces}$

2PH2 (SMT)

2PH2-26-UA-SMT-L

Recommended PCB Layout

PIN 1

$A = .079" [2.00] \times \text{No. of positions}$
 $B = .079" [2.00] \times \text{No. of spaces}$

D2PH-1

D2PH-1-16-U-.235 / .100 / .400

Recommended PCB Layout

PIN 2

PIN 1

$A = .079" [2.00] \times \text{No. of positions}$
 $B = .079" [2.00] \times \text{No. of spaces}$

D2PH-2

D2PH-2-32-U-.235 / .100 / .400

Recommended PCB Layout

PIN 1
TYPE B

PIN 1
TYPE A

A = .079" [2.00] x No. of positions
B = .079" [2.00] x No. of spaces

D2PH-1 (SMT)

D2PH-1-12-U-.100/SMT-B/.240

Recommended PCB Layouts

SMT-A

SMT-B

PIN 2

PIN 1

A = .079" [2.00] x No. of positions
B = .079" [2.00] x No. of spaces

D2PH-2 (SMT)

D2PH-2-16-U-.145/SMT/.360

Recommended PCB Layouts

MS2A

MS2B

MS2C

MS2H-1 RIGID SHORT HANDLE

MS2H-2 FLEXIBLE LONG HANDLE

INTRODUCTION:

Adam Tech 2BHR Series 2.0mm Box Headers are dual row shrouded headers for use with dual row IDC female socket connectors. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Box Headers are available in Straight PCB Mount, Right Angle PCB Mount and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold. SMT versions are manufactured with a Hi-Temp insulator. Additional options include latches and custom pin lengths.

FEATURES:

Shrouded, insulated connection
 Superior low profile design
 Slot for IDC socket Polarization bump
 Straight PCB, Right Angle PCB and SMT versions
 Gold, Tin or Selective Gold plating
 Options include Elevated types and integral latches
 Hi-Temp insulator available

MATING SOCKETS:

Adam Tech .079" [2.0mm] X .079" [2.0mm] dual row IDC sockets

SPECIFICATIONS:

Material:

Standard insulator: PBT, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
 Insulator Color: Black
 Contacts: Brass

Plating:

U = Gold over nickel underplate
 SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
 T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
 Current rating: 1 Amp max
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Mating durability: 500 cycles min.

Temperature Rating:

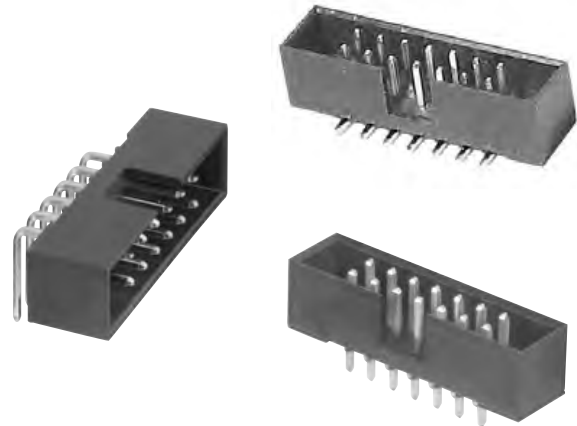
Operating temperature: -40°C to +105°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

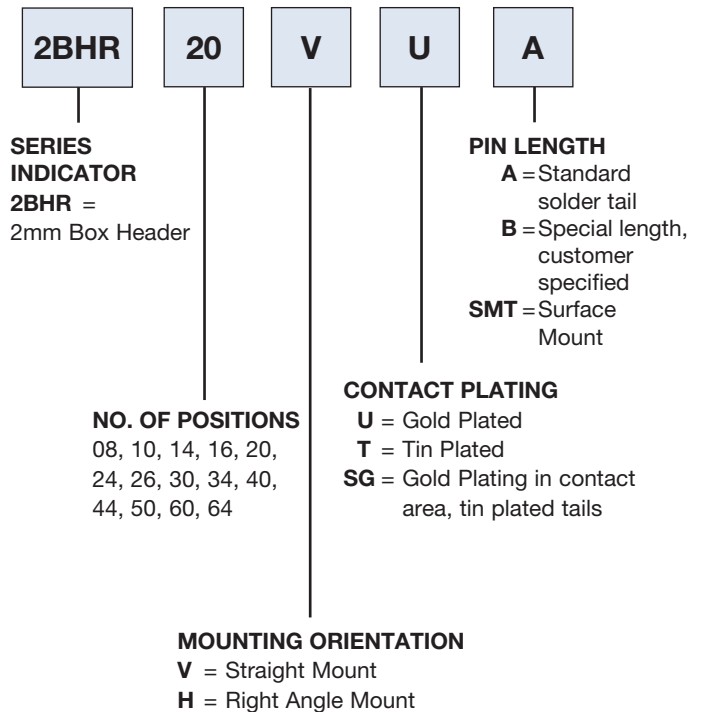
Anti-ESD plastic trays

APPROVALS AND CERTIFICATIONS:

UL Recognized File no. E224053



ORDERING INFORMATION



This series is available in an elevated version similar to our BHRE Series as shown on pgs. 286-287

OPTIONS:

Add designator(s) to end of part number
30 = 30 μin gold plating in contact area
GY = Gray color insulator
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)

$A = .079 [2.00] \times \text{No. of Spaces} + .362 [9.20]$
 $B = .079 [2.00] \times \text{No. of Spaces}$

2BHR STRAIGHT

2BHR-14-VUA

Recommended PCB Layout

$A = .079 [2.00] \times \text{No. of Spaces} + .362 [9.20]$
 $B = .079 [2.00] \times \text{No. of Spaces}$

2BHR RIGHT ANGLE

2BHR-14-HUA

Recommended PCB Layout

$A = .079 [2.00] \times \text{No. of Spaces} + .362 [9.20]$
 $B = .079 [2.00] \times \text{No. of Spaces}$

2BHR SMT

2BHR-14-VUA-SMT

Recommended PCB Layout

INTRODUCTION:

Adam Tech 2MHR Series 2mm Latch Headers are dual row, PCB mounted, shrouded headers with latches for use with dual row IDC female socket connectors. In addition to providing a shock and vibration proof connection the locking latches also act as ejectors to remove the mating socket. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Latch Headers are available in Straight PCB Mount, Right Angle PCB and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold

FEATURES:

Integral Latches provide Shock and Vibration Proof connection
Slot for IDC socket Polarization bump
Straight PCB, Right Angle PCB and SMT versions
Gold, Tin or Selective Gold plating
Elevated option available
Hi-Temp insulator available

MATING SOCKETS:

2mm X 2mm Dual row IDC sockets

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0
Insulator Color: Black (Gray optional)
Contacts: Brass

Plating:

U = Gold over nickel underplate overall
SG = Gold over nickel on contact area,
Tin over copper underplate on tails.
T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Mating durability: 500 Cycles min.

Temperature Rating:

Operating temperature: -40°C to +105°C

PACKAGING:

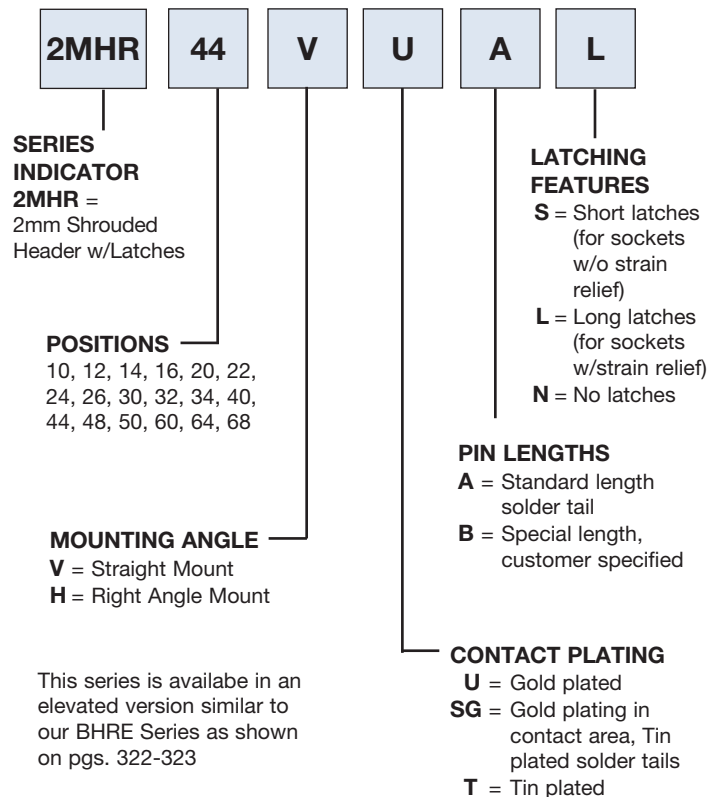
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number
HT = High-temp insulator for high-temp soldering processes

LATCH DIMENSIONS		
	X	Y
LONG LATCH	.775 [19.70]	.452 [11.50]
SHORT LATCH	.665 [16.90]	.342 [8.70]

$A = .079 [2.00] \times \text{No. of Spaces} + .697 [17.70]$
 $B = .079 [2.00] \times \text{No. of Spaces}$

2MHR STRAIGHT PCB MOUNT

2MHR-34-VUAS

Recommended PCB Layout

LATCH DIMENSIONS		
	X	Y
LONG LATCH	.775 [19.70]	.452 [11.50]
SHORT LATCH	.665 [16.90]	.342 [8.70]

$A = .079 [2.00] \times \text{No. of Spaces} + .697 [17.70]$
 $B = .079 [2.00] \times \text{No. of Spaces}$

2MHR RIGHT ANGLE PCB MOUNT

2MHR-60-HUAS

Recommended PCB Layout

LATCH DIMENSIONS		
	X	Y
LONG LATCH	.775 [19.70]	.452 [11.50]
SHORT LATCH	.665 [16.90]	.342 [8.70]

$A = .079 [2.00] \times \text{No. of Spaces} + .697 [17.70]$
 $B = .079 [2.00] \times \text{No. of Spaces}$

2MHR VERTICAL SMT MOUNT

2MHR-40-HUAS

Recommended PCB Layout

INTRODUCTION:

Adam Tech 2RS Series 2.00mm Receptacle Strips are offered in several sizes and profiles designed to satisfy most 2.00mm socket requirements. Available in Single and Dual rows, they are offered in Straight, Right Angle, Bottom Entry and Pass Through PCB mounting styles. Each type has a specially designed contact system which uses a wiping mating action and produces a high normal force connection with gold, tin or selective gold plating. All are available with Standard or Hi-Temp Thermoplastic insulators. Our SMT offering is available with optional pick and place pads and tape & reel packaging.

FEATURES:

Single and dual row in straight, right angle and SMT mounting forms
 Top, side and bottom entry versions
 Plated full gold, full tin or duplex plated
 Five different body heights
 Standard PBT insulator or optional Hi Temp insulator
 Tape and reel packaging available

MATING CONNECTORS:

Adam Tech 2PH headers and all industry standard 2.0mm pin headers with a .020" [0.5mm] square pin.

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
 Insulator Color: Black
 Contacts: Phosphor Bronze

Contact Plating:

G = Gold over nickel underplate overall
 SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
 T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
 Current rating: 1 Amp max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.313 lbs per contact max.
 Withdrawal force: 0.175 lbs per contact min.

Temperature Rating:

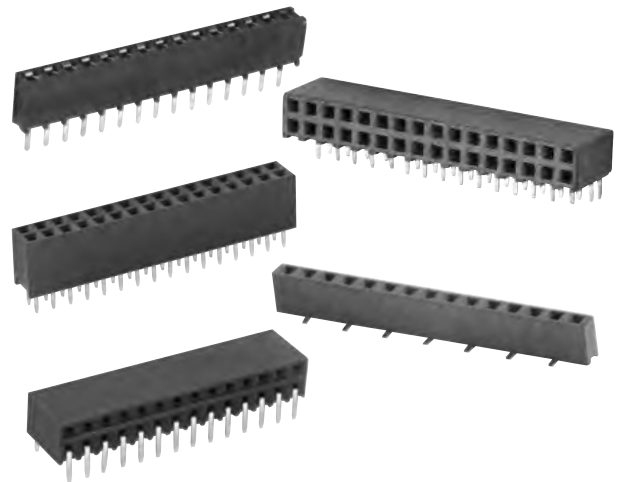
Operating temperature: -40°C to +105°C

PACKAGING:

Anti-ESD plastic trays
 (Tape and Reel optional for SMT option)

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION

2RS1

40

G

SERIES INDICATOR

- 2RS1** = 2.00mm Single Row, Vertical Mount, Receptacle
- 2RS2** = 2.00mm Dual Row, Vertical Mount, Receptacle
- 2RS1R** = 2.00mm Single Row, Right Angle, Receptacle
- 2RS2R** = 2.00mm Dual Row, Right Angle, Receptacle
- 2RS4** = 2.00mm 4 Row, Vertical Mount, Receptacle
- 2RS2BR** = 2.00mm Dual Row, Right Angle, 3-Sided Contact Receptacle
- 2RS1H** = 2.00mm Single Row, Vertical Mount, .248" Height Receptacle
- 2RS2H** = 2.00mm Dual Row, Vertical Mount, .248" Height Receptacle
- 2RS2T** = 2.00 mm Dual Row, Surface Mount, .106" Height, Top Entry Receptacle
- 2RS2B** = 2.00mm Dual Row, Surface Mount, .106" Height, Bottom Entry Receptacle

PLATING

- G** = Gold plated
- SG** = Gold plated contact area, tin plated solder tails
- T** = Tin plated

POSITIONS

- SINGLE ROW:** 2 thru 40
- DUAL ROW:** 4 thru 80
- FOUR ROW:** 8 thru 120

OPTIONS:

- Add designator(s) to end of part number
- 30** = 30 μin gold plating in contact area
 - SMT** = SMT leads with Hi-Temp insulator dual row
 - SMT-A** = SMT Single Row Type A with Hi-Temp insulator
 - SMT-B** = SMT Single Row Type B with Hi-Temp insulator
 - P** = Optional guide peg on SMT version
 - PP** = Pick and place pad
 - HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only.)
- All SMT products are manufactured with Hi-Temp insulators

2RS1

2RS1-15-G

Recommended PCB Layout

A = .079 [2.00] X No. of Positions
B = .079 [2.00] X No. of Spaces

2RS2

2RS2-32-G

Recommended PCB Layout

A = .079 [2.00] X No. of Positions per row
B = .079 [2.00] X No. of Spaces

2RS2BR

2RS2BR-28-G

Recommended PCB Layout

A = .079 [2.00] X No. of Positions per row + .008 [0.20]
B = .079 [2.00] X No. of Spaces

A = .079 [2.00] X No. of Positions
B = .079 [2.00] x No. of Spaces

2RS1R

2RS1R-14-G

Recommended PCB Layout

A = .079 [2.00] X No. of Positions Per Row
B = .079 [2.00] x No. of Spaces

2RS2R

2RS2R-32-G

Recommended PCB Layout

TYPE A

A = .079 [2.00] X No. of Positions
B = .079 [2.00] x No. of Spaces

2RS1-SMT

2RS1-15-SG-SMT-A

Recommended PCB Layout

A = .079 [2.00] X No. of Positions Per Row
B = .079 [2.00] x No. of Spaces

2RS2-SMT

2RS2-32-SG-SMT

Recommended PCB Layout

	<p>A = .079 [2.00] X No. of Positions B = .079 [2.00] x No of Spaces</p>	<p>2RS1H</p> <p>2RS1H-16-G</p> <p>Recommended PCB Layout</p>
	<p>A = .079 [2.00] X No. of Positions Per Row B = .079 [2.00] x No of Spaces</p>	<p>2RS2H</p> <p>2RS2H-32-G</p> <p>Recommended PCB Layout</p>
	<p>A = .079 [2.00] X No. of Positions Per Row B = .079 [2.00] x No of Spaces</p>	<p>2RS2T-SMT TOP ENTRY SOCKET</p> <p>2RS2T-20-SG-SMT</p> <p>Recommended PCB Layout</p>
	<p>A = .079 [2.00] X No. of Positions Per Row B = .079 [2.00] x No of Spaces</p>	<p>2RS2B-SMT BOTTOM ENTRY SOCKET</p> <p>2RS2B-20-SG-SMT</p> <p>Recommended PCB Layout</p>

INTRODUCTION:

Adam Tech PH Series .100" Pin Headers are a full range headers in a variety of configurations including Single, Dual and Three rows, Straight or Right Angle in Thru-Hole or SMT mounting. Their close tolerance .025" sq. posts are smoothly finished and taper tipped to eliminate insertion damage to the PCB or mating connector. Adam Tech Pin Headers can be easily cut into exact sizes as required. Options include stacked insulator versions and choice of tin, gold or selective gold plating. This series is compatible with all industry standard .100" pitch pin headers.

FEATURES:

Single, Dual or Three Row
 Tin, gold or selective gold plating options
 Thru-hole or SMT mounting
 Stacked and Custom length versions available
 Versatile Breakaway design
 Hi Temp Insulator available

MATING RECEPTACLES:

Mates with all industry standard receptacles accepting a .025" square post on .100" [2.54mm] centerlines

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
 Insulator Color: Black
 Contacts: Brass

Plating:

U = Gold over nickel underplate
 SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
 T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
 Current rating: 3 Amps max
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 2 oz lbs max.
 Withdrawal force: .75 oz lbs min
 Mating durability: 1000 cycles min.

Temperature Rating:

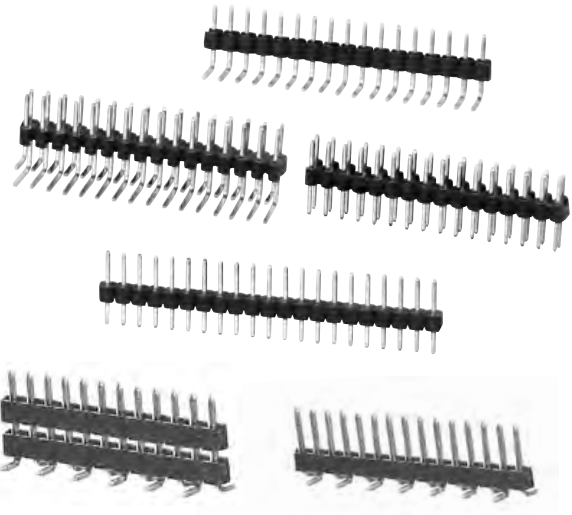
Operating temperature: -40°C to +105°C
 Soldering process temperature:
 Standard insulator: 235°C
 Hi-Temp insulator: 260°C

PACKAGING:

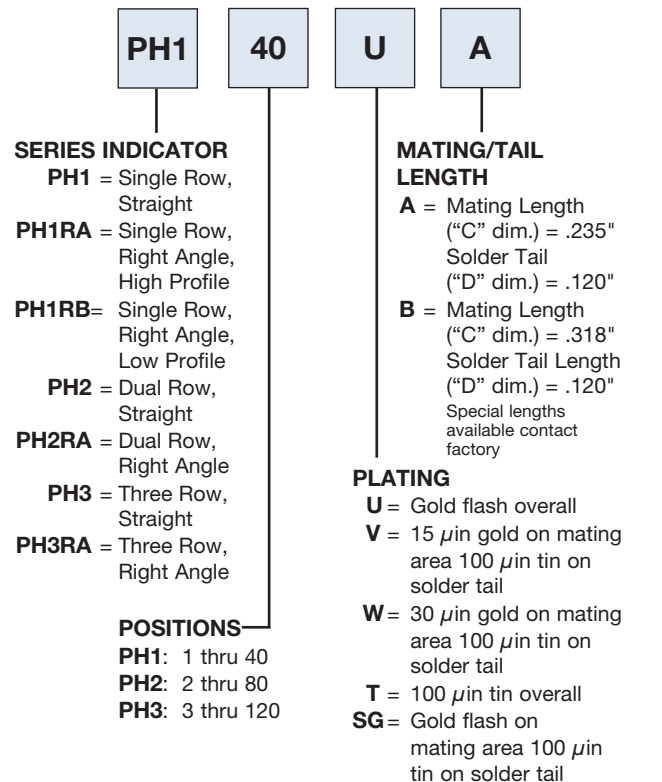
Anti-ESD plastic bags

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION

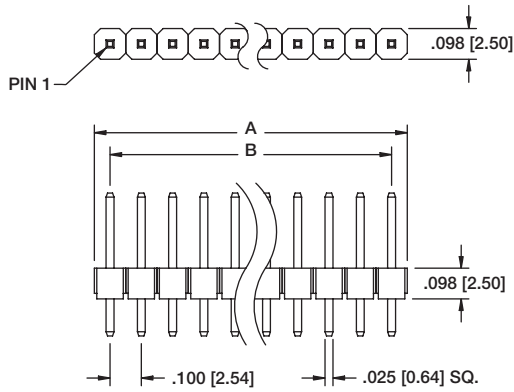


OPTIONS:

Add designator(s) to end of part number

- SMT** = Surface mount leads Dual row with Hi-Temp insulator
- SMT-A** = Surface mount leads Type A with Hi-Temp insulator
- SMT-B** = Surface mount leads Type B with Hi-Temp insulator
- HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)
- L** = Low profile 1.50 mm insulator thickness

A = .100 [2.54] X No. of Positions.
 B = .100 [2.54] X No. of Spaces.

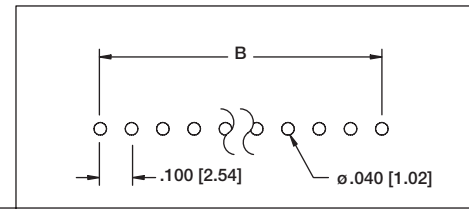


PH1 SINGLE ROW

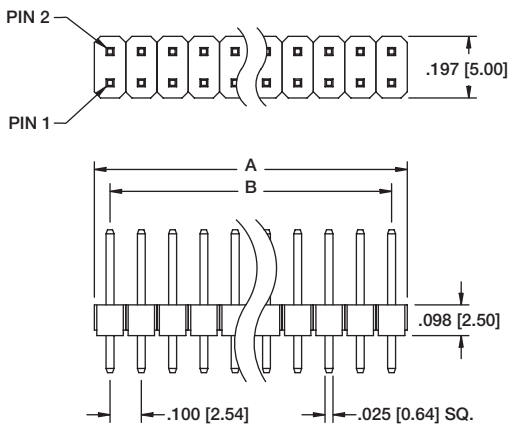


PH1-16-UA

Recommended PCB Layout



A = .100 [2.54] X No. of Positions per row.
 B = .100 [2.54] X No. of Spaces.

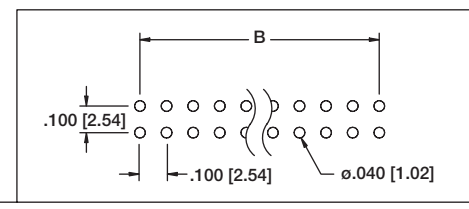


PH2 DUAL ROW

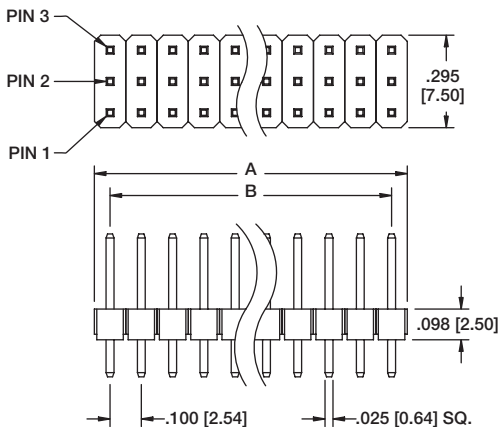


PH2-32-UA

Recommended PCB Layout



A = .100 [2.54] X No. of Positions per row.
 B = .100 [2.54] X No. of Spaces.

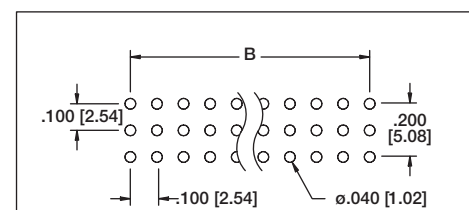


PH3 TRIPLE ROW



PH3-48-UA

Recommended PCB Layout



PH1RB SINGLE ROW

PH1RB-16-UA

Recommended PCB Layout

PH1RA

A = .100 [2.54] X No. of Positions.
B = .100 [2.54] X No. of Spaces.

PH2RA DUAL ROW

PH2RA-32-UA

Recommended PCB Layout

PH1RA

A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.

PH3RA TRIPLE ROW

PH3RA-48-UA

Recommended PCB Layout

PH1RA

A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.

PIN 1
TYPE B

PIN 1
TYPE A

A = .100 [2.54] X No. of Positions.
B = .100 [2.54] X No. of Spaces.

PH1
SMT-SINGLE ROW
STRAIGHT

PH1-15-UA-SMT-B

Recommended PCB Layout

SMT-A

SMT-B

PIN 2

PIN 1

A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.

PH2
SMT-DUAL ROW
STRAIGHT

PH2-26-UA-SMT

Recommended PCB Layout

PIN 1

A = .100 [2.54] X No. of Positions.
B = .100 [2.54] X No. of Spaces.

PH1RB
SMT-SINGLE ROW
RIGHT ANGLE

PH1RB-10-UA-SMT

Recommended PCB Layout

PIN 2

PIN 1

A = .100 [2.54] X No. of Positions per row.
B = .100 [2.54] X No. of Spaces.

PH2RA
SMT-DUAL ROW
RIGHT ANGLE

PH2RA-20-UA-SMT

Recommended PCB Layout

DPH-1

Recommended PCB Layout **DPH-1-10-U-.220/.100/.350**

DPH-1-SMT

Recommended PCB Layout **DPH-1-12-U-.200/SMT/.220-B**

DPH-2

Recommended PCB Layout **DPH-2-22-U-.220/.100/.350**

DPH-2-SMT

Recommended PCB Layout **DPH-2-16-U-.250/SMT/.300**

ORDERING INFORMATION

DPH

SERIES INDICATOR
DPH =Dual insulator
.100" centerline

2

NO. OF ROWS
1 = Single row
2 = Dual row
3 = Triple row

20

POSITIONS
1 thru 40 (single row)
4 thru 80 (dual row)
3 thru 120 (triple row)

SG

PLATING
U = Gold plated
T = Tin plated
SG = Gold plating in contact area, tin plating on solder tails

.XXX"/.XXX"/.XXX"
(C DIM) (D DIM) (E DIM)

SPECIFIED IN INCHES AS:
C DIM. / D DIM. / E DIM.
(replace D Dim. with SMT for surface mount option)

A = .100 [2.54] x No. of Positions.
B = .100 [2.54] x No. of Spaces.

INTRODUCTION:

Adam Tech MS Series Mini Shunts are available in .050", 2.0mm, .100" and .200" centerlines. They quickly and easily jump individual pins on pin headers to perform manual programming on PCB's. This series offers a broad range of sizes, shapes and colors. Shunts are designed with detents at top for easy fingertip installation and removal. Options include integrated pull tabs and gang types which are molded in one piece. This series is extremely low cost and is a highly economical, cost effective solution to replacing PCB switches. Adam Tech's shunts are available in Gold or Tin plating.

FEATURES:

Electrically connects two or more pin header posts
 Wide variety of bodies and styles to choose from
 Superior insulator design provides easy Fingertip extraction
 Pull Tab and Ganged options available
 Choice of Gold or Tin-plated contact area
 Side and end stackable

MATING OPTIONS:

Mates with .025" sq. pin headers on .100" centers and all industry standard pin headers with .025" square post on .100" [2.54mm] centerlines.

SPECIFICATIONS:

Material:

Insulator: PBT, rated UL94V-0
 Insulator Color: Black
 Contacts: Phosphor Bronze

Contact Plating:

G = Gold over nickel underplate overall
 T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
 Current rating: 3 Amps max
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 1.57 lbs max.
 Withdrawal force: .65 lbs min
 Mating durability: 50 Cycles Gold
 20 Cycles Tin

Temperature Rating:

Operating temperature: -40°C to +105°C

PACKAGING:

Anti-ESD plastic bags

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION

MSB

G

BODY STYLE/HEIGHT

- MSA** = Closed top, .256"
- MSB** = Open top, .236"
- MSC** = Open top, .177"
- MSDA** = Closed top, .315"
- MSDB** = Open top, .315"
- MSBH** = Handle-top, .531"
- HMSA** = .050" Mini Shunt (1 x 2)
- HMSB** = .050" Mini Shunt (2 x 2)
- HMSC** = .050" Mini Shunt, .118"
- MSE** = Closed top, 3 position
- MST** = 10 piece strip
- MSBG** = Ganged, block type
(Specify # of positions, 2 thru 10)

PLATING

- G** = Gold plated
- T** = Tin plated

2.00mm SHUNTS - pg. 267

OPTIONS:

Add designator(s) to end of part number
 30 = 30 μin gold plating in contact area

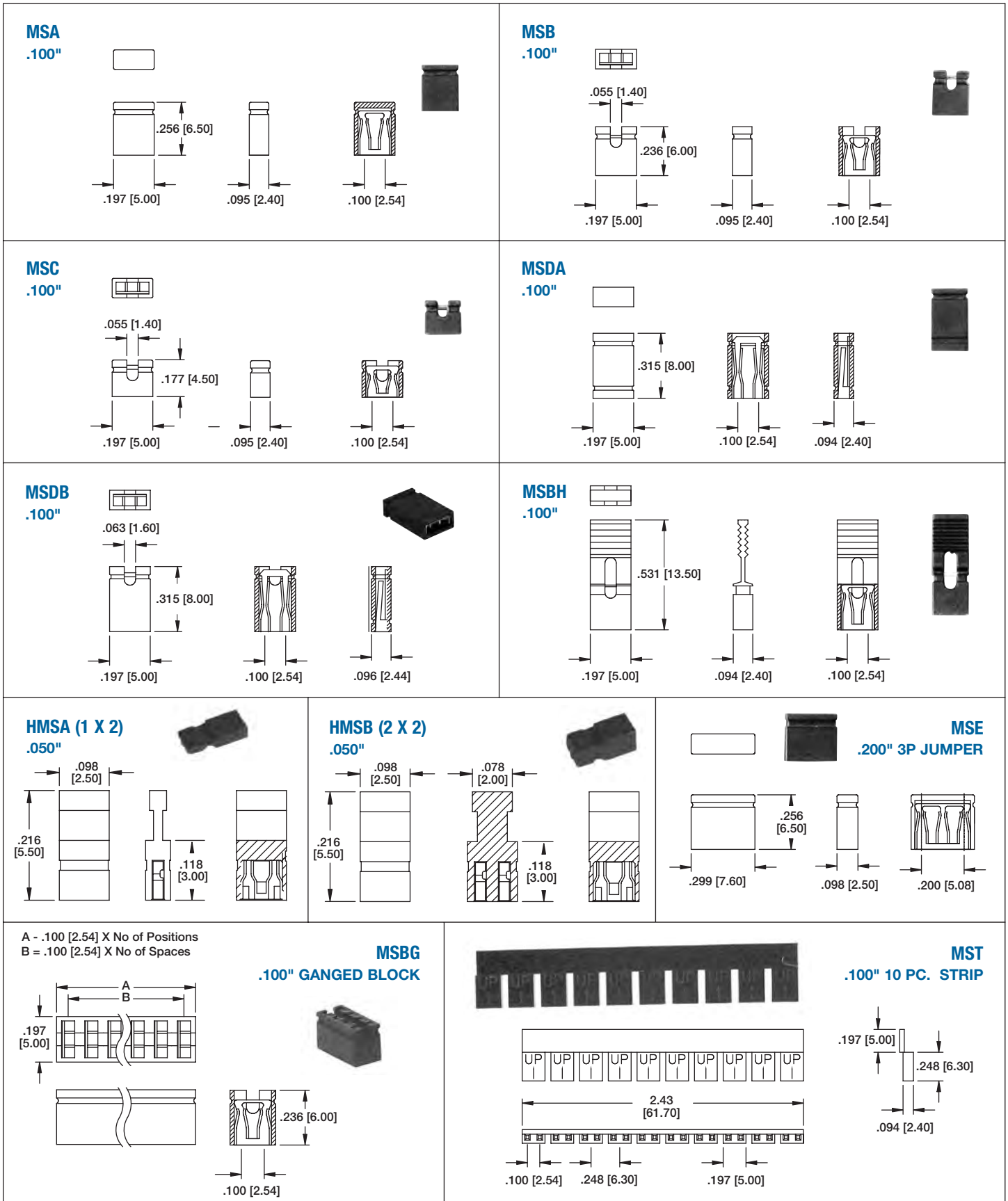
STANDARD INSULATOR COLOR IS BLACK

Other insulator colors available

Add designator(s) to end of part number

- R** = Red *
- B** = Blue *
- W** = White *
- Y** = Yellow *
- G** = Green *

* Minimum order required



INTRODUCTION:

Adam Tech BHR Series .100" Box Headers are a dual row shrouded header for use with dual row IDC female socket connectors. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Box Headers are available in Straight PCB Mount, Right Angle PCB Mount and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold. SMT versions are manufactured with a Hi-Temp insulator. Additional options include latches and custom pin lengths.

FEATURES:

- Superior low profile design
- Slot for IDC socket Polarization bump
- Straight PCB, Right Angle PCB and SMT versions
- Gold, Tin or Selective Gold plating
- Options include Elevated types and integral latches
- Hi-Temp insulator available

MATING SOCKETS:

Adam Tech .100" X .100" dual row IDC sockets

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
 Insulator Color: Black (Gray optional)
 Contacts: Brass

Plating:

U = Gold over nickel underplate
 SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
 T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
 Current rating: 1 Amp max
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Mating durability: 500 cycles min.

Temperature Rating:

Operating temperature: -40°C to +105°C

PACKAGING:

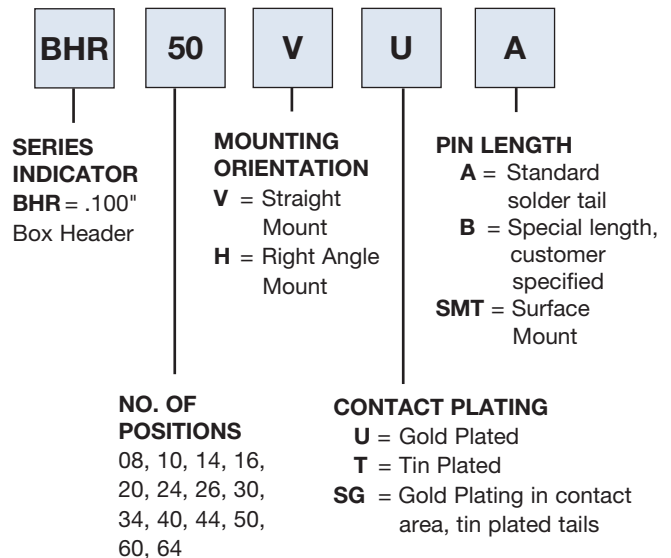
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number
LL = Box header with long plastic latches
SL = Box header with short plastic latches
ML = Box header with long metal latches
MS = Box header with short metal latches
30 = 30 μin gold plating in contact area
GY = Gray color insulator
HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only.
 All SMT products are manufactured with Hi-Temp insulators)



A = .100 [2.54] X No. of Positions / 2 + .300 [7.62]
 B = .100 [2.54] X No. of Positions / 2 + .200 [5.08]
 C = .100 [2.54] X No. of Spaces

BHR
STRAIGHT PCB MOUNT

BHR-34-VUA

Recommended PCB Layout

A = .100 [2.54] X No. of Positions / 2 + .300 [7.62]
 B = .100 [2.54] X No. of Positions / 2 + .200 [5.08]
 C = .100 [2.54] X No. of Spaces

BHR
RIGHT ANGLE PCB MOUNT

BHR-34-HUA

Recommended PCB Layout

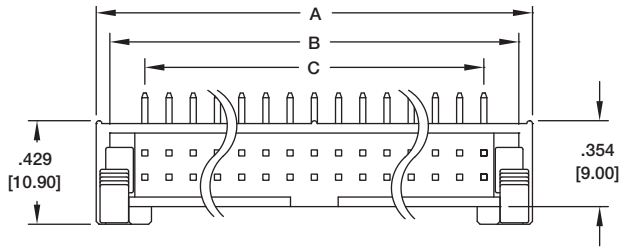
A = .100 [2.54] X No. of Positions / 2 + .300 [7.62]
 B = .100 [2.54] X No. of Positions / 2 + .200 [5.08]
 C = .100 [2.54] X No. of Spaces

BHR
SURFACE MOUNT

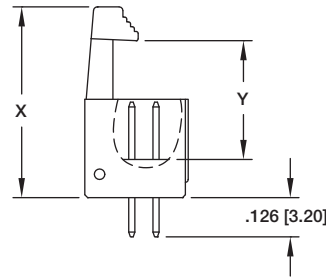
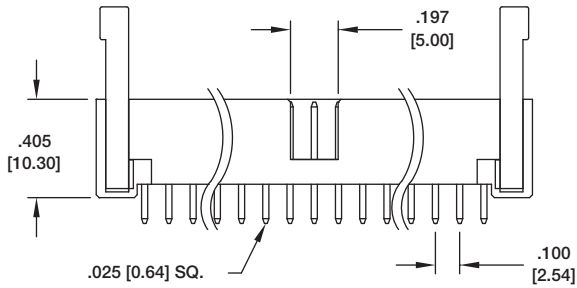
BHR-30-VSG-SMT

Recommended PCB Layout

BHR STRAIGHT MOUNT BOX HEADER WITH LATCHES

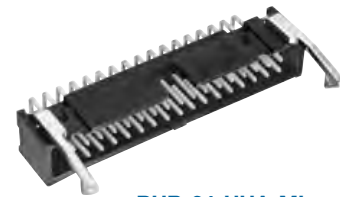
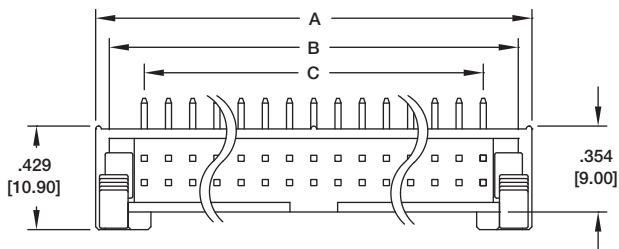


BHR-34-VUA-ML

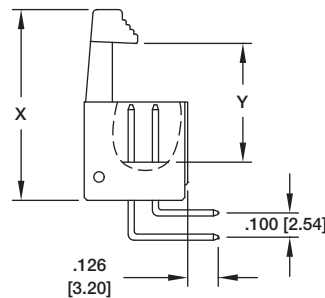
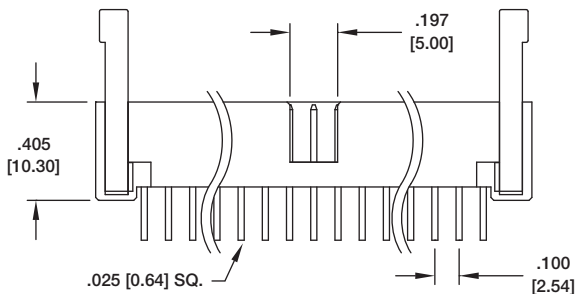


$A = .100 [2.54] \times \text{No. of Positions} / 2 + .301 [7.66]$
 $B = .100 [2.54] \times \text{No. of Positions} / 2 + .189 [4.80]$
 $C = .100 [2.54] \times \text{No. of Positions} / 2 - 1$

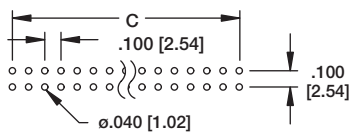
BHR RIGHT ANGLE MOUNT BOX HEADER WITH LATCHES



BHR-34-HUA-ML



$A = .100 [2.54] \times \text{No. of Positions} / 2 + .301 [7.66]$
 $B = .100 [2.54] \times \text{No. of Positions} / 2 + .189 [4.80]$
 $C = .100 [2.54] \times \text{No. of Positions} / 2 - 1$



Recommended PCB Layout

LATCH TYPE	DIMENSIONS	
	X	Y
LONG LATCH (-ML)	1.035 [26.30]	.575 [14.60]
SHORT LATCH (-MS)	.901 [22.90]	.417 [10.60]

INTRODUCTION:

Adam Tech BHRE Series Elevated Box Headers provide all of the advantages of our standard Box Headers such as our Low Profile design, snug fit & polarized mating but have additional plastic insulators in place to stabilize rows of pins for stacking applications. This series is available in Straight, Right Angle & SMT mounting with standard or customer specified Stacking Heights and PCB tail lengths.

FEATURES:

Elevated for Stacking applications
 Low Profile design
 Straight, Right Angle & SMT mounting options
 Standard or customer specified Stacking Heights & PCB tail lengths

MATING SOCKETS:

Adam Tech .100" X .100" dual row IDC sockets

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
 Insulator Color: Black (Gray optional)
 Contacts: Brass

Plating:

U = Gold over nickel underplate
 SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
 T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
 Current rating: 1 Amp max
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Mating durability: 500 cycles min.

Temperature Rating:

Operating temperature: -40°C to +105°C

PACKAGING:

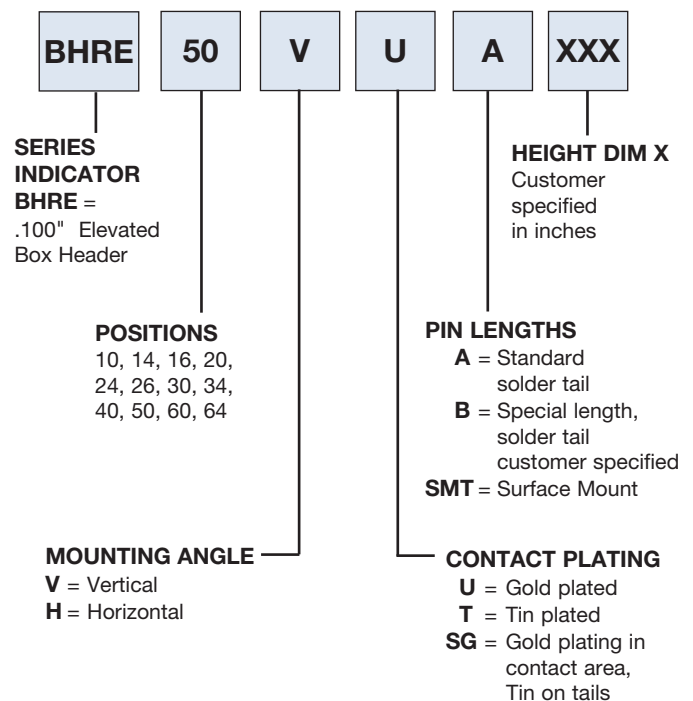
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number

30 = 30u" Gold on contact area

GY = Gray color insulator

HT = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)



$A = .100 [2.54] \times \text{No. of Positions} / 2 + .300 [7.62]$
 $B = .100 [2.54] \times \text{No. of Positions} / 2 + .200 [5.08]$
 $C = .100 [2.54] \times \text{No. of Spaces}$

BHRE
ELEVATED STRAIGHT
PCB MOUNT

BHRE-26-VUA-.477

$A = .100 [2.54] \times \text{No. of Positions} / 2 + .300 [7.62]$
 $B = .100 [2.54] \times \text{No. of Positions} / 2 + .200 [5.08]$
 $C = .100 [2.54] \times \text{No. of Spaces}$

BHRE
ELEVATED RIGHT ANGLE
PCB MOUNT

BHRE-26-HUA-.477

$A = .100 [2.54] \times \text{No. of Positions} / 2 + .300 [7.62]$
 $B = .100 [2.54] \times \text{No. of Positions} / 2 + .200 [5.08]$
 $C = .100 [2.54] \times \text{No. of Spaces}$

BHRE
ELEVATED SMT

BHRE-20-VU-SMT-.477

INTRODUCTION:

Adam Tech MHR Series .100" pitch Latch Headers are dual row, PCB mounted, shrouded headers with latches for use with dual row IDC female socket connectors. In addition to providing a shock and vibration proof connection the locking latches also act as ejectors to remove the mating socket. Our low profile, space saving design has a center slot for the socket's polarization bump. Adam Tech's Latch Headers are available in Straight PCB Mount, Right Angle PCB and SMT Mounting. Plating options include choice of Gold, Tin or Selective Gold

FEATURES:

Integral Latches provide Shock and Vibration Proof connection
Slot for IDC socket Polarization bump
Straight PCB, Right Angle PCB and SMT versions
Gold, Tin or Selective Gold plating
Elevated option available
Hi-Temp insulator available

MATING SOCKETS:

.100" X .100" Dual row IDC sockets

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0
Insulator Color: Black (Gray optional)
Contacts: Brass

Plating:

U = Gold over nickel underplate overall
SG = Gold over nickel on contact area,
Tin over copper underplate on tails.
T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
Current rating: 3 Amps max
Contact resistance: 20 mΩ max. initial
Insulation resistance: 5000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Mating durability: 500 Cycles min.

Temperature Rating:

Operating temperature: -40°C to +105°C

PACKAGING:

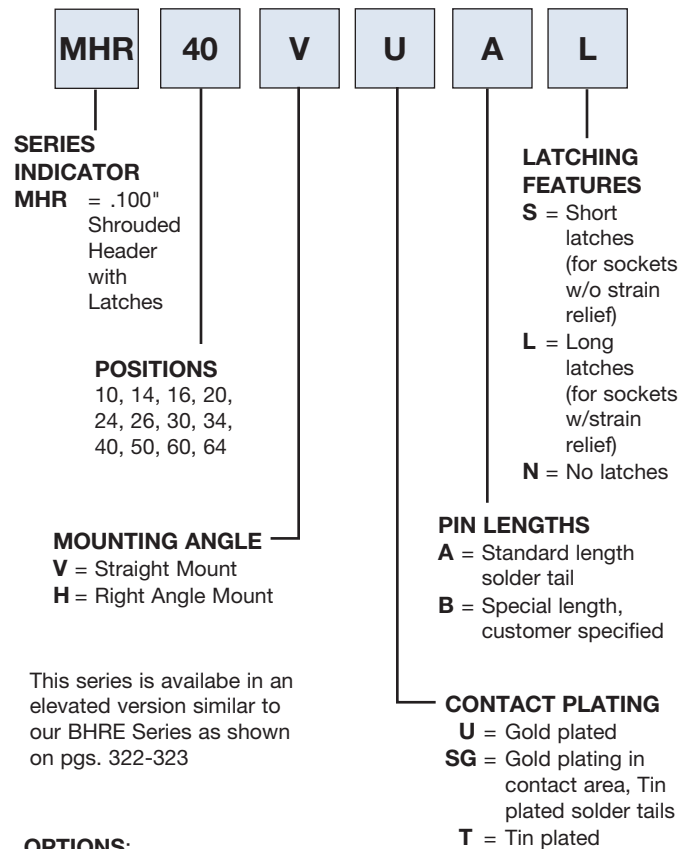
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION



This series is available in an elevated version similar to our BHRE Series as shown on pgs. 322-323

OPTIONS:

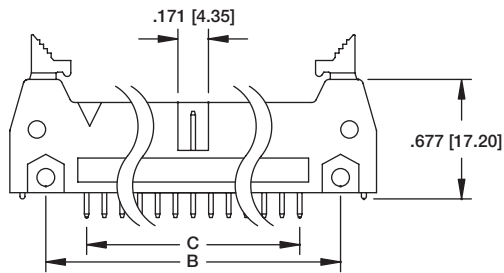
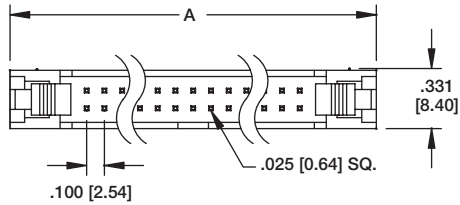
Add designator(s) to end of part number

GY = Gray color insulator

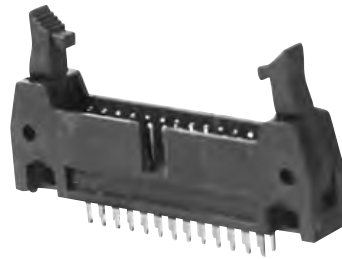
HT = High-temp insulator for high-temp soldering processes



A = .100 [2.54] x No. of Spaces + .860 [21.84]
 B = .100 [2.54] x No. of Spaces + .460 [11.68]
 C = .100 [2.54] x No. of Spaces

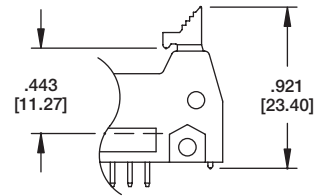


MHR STRAIGHT PCB MOUNT

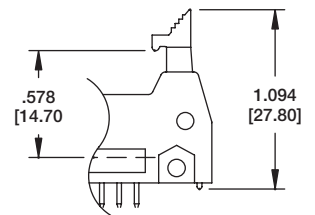


MHR-26-VUAL

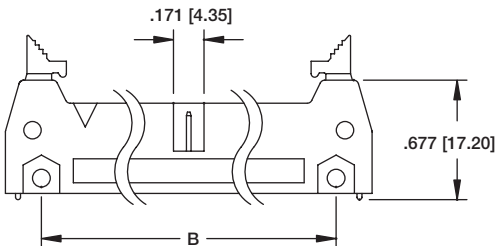
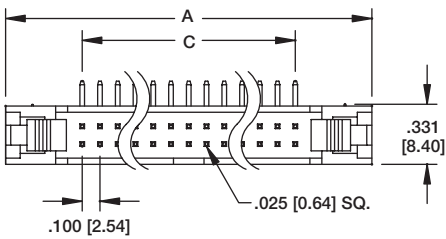
Latch Options



Header with Short Ejector/Latch for Sockets without Strain Reliefs



Header with Long Ejector/Latch for Sockets with Strain Reliefs

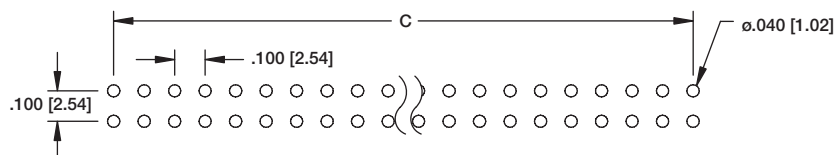
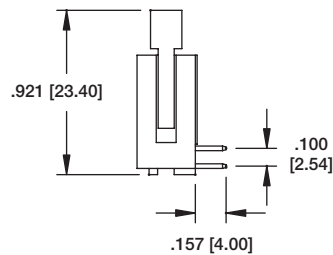


A = .100 [2.54] x No. of Spaces + .860 [21.84]
 B = .100 [2.54] x No. of Spaces + .460 [11.68]
 C = .100 [2.54] x No. of Spaces

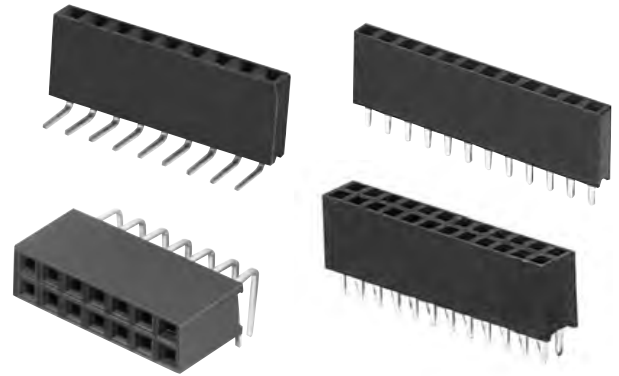
MHR RIGHT ANGLE PCB MOUNT



MHR-26-HUAL



Recommended PCB Layout



INTRODUCTION:

Adam Tech RS Series .100" pitch Receptacle Strips are a series of sockets offered in a multitude of sizes and profiles designed to satisfy most .100" pitch socket requirements. Available in Single, Dual and Triple row, they are offered in Straight, Right Angle, SMT, Bottom Entry and Pass Through PCB mounting styles. Each type has a specially designed contact system which uses a wiping mating action and produces a high normal force connection with gold, tin or selective gold plating. All are available with Standard or Hi-Temp Thermoplastic insulators. Our SMT offering is available with optional pick and place pads and tape & reel packaging.

FEATURES:

- Broad range of sizes and profiles
- Contact systems with high normal force
- Choice of contact plating
- SMT pick & place option
- Optional Tape & reel packaging

MATING CONNECTORS:

Adam Tech PH series .100" pitch pin headers and all industry standard pin headers with a .025" (0.64mm) square pin.

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0
 Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
 Insulator Color: Black
 Contacts: Phosphor Bronze

Contact Plating:

G = Gold over nickel underplate overall
 SG = Gold over nickel underplate on contact area, tin over copper underplate on tails.
 T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
 Current rating: 3 Amps max.
 Contact resistance: 20 mΩ max. initial
 Insulation resistance: 5000 MΩ min.
 Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.375 lbs per contact max.
 Withdrawal force: 0.125 lbs per contact min.

Temperature Rating:

Operating temperature: -40°C to +105°C

PACKAGING:

Anti-ESD plastic trays
 (Tape and Reel optional for SMT option)

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION

RS1

12

G

SERIES INDICATOR

- RS1** = Single row vertical mount receptacle
- RS1R** = Single row right angle mount receptacle
- RS2** = Dual row vertical mount receptacle
- RS2R** = Dual row right angle mount receptacle
- RSB** = Dual row straight PCB mount with polarization bump and keyed corner contacts
- RSBR** = Dual row right angle PCB mount with polarization bump and keyed corner contacts
- RSE1** = Single row elevated receptacle
- RSE2** = Dual row elevated receptacle
- RSM1** = Single row surface mount
- RSM2** = Dual row surface mount

PLATING

- G** = Gold plated
- T** = Tin plated
- SG** = Gold plating in contact area, Tin Plated solder tails

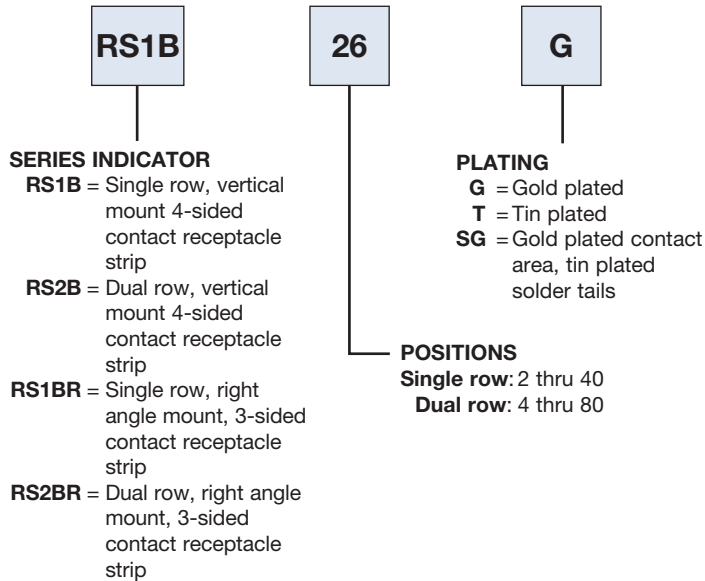
POSITIONS

Single row: 1 thru 40
 Dual row: 2 thru 80

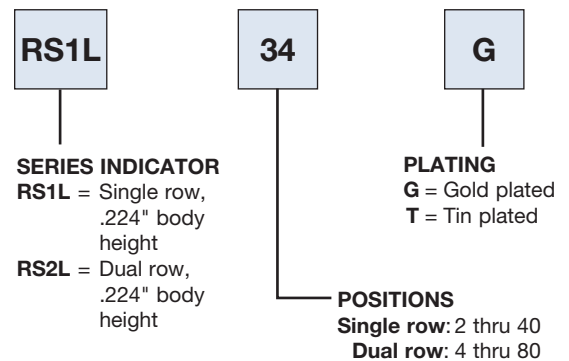
OPTIONS:

- Add designator(s) to end of part number
- SMT** = SMT Dual row with Hi-Temp insulator
- SMT-A** = SMT Single Row Type A with Hi-Temp insulator
- SMT-B** = SMT Single Row Type B with Hi-Temp insulator
- 30** = 30 μin gold plating in contact area
- P** = Optional guide peg on SMT version
- HT** = Hi-Temp insulator for Hi-Temp soldering processes up to 260°C (Add this option for thru-hole products only. All SMT products are manufactured with Hi-Temp insulators)

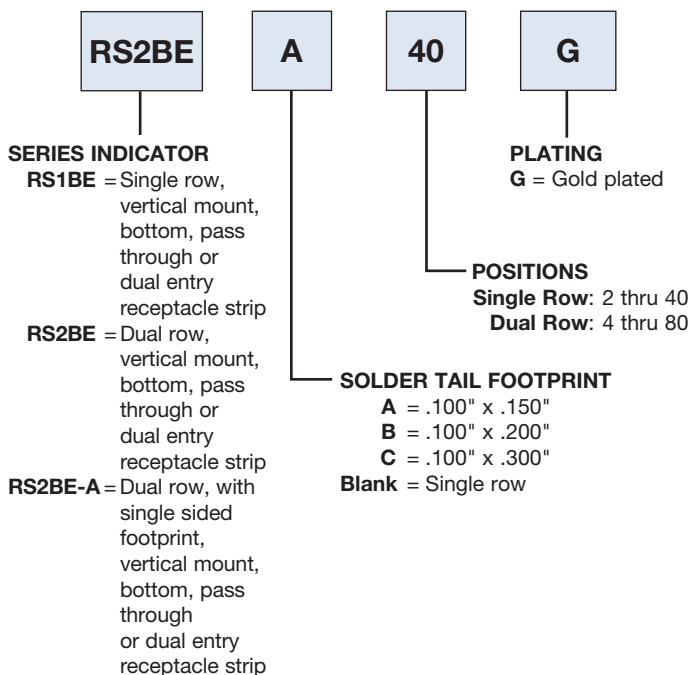
RECEPTACLE STRIPS FOUR SIDED CONTACT PAGE 293, 294 & 298



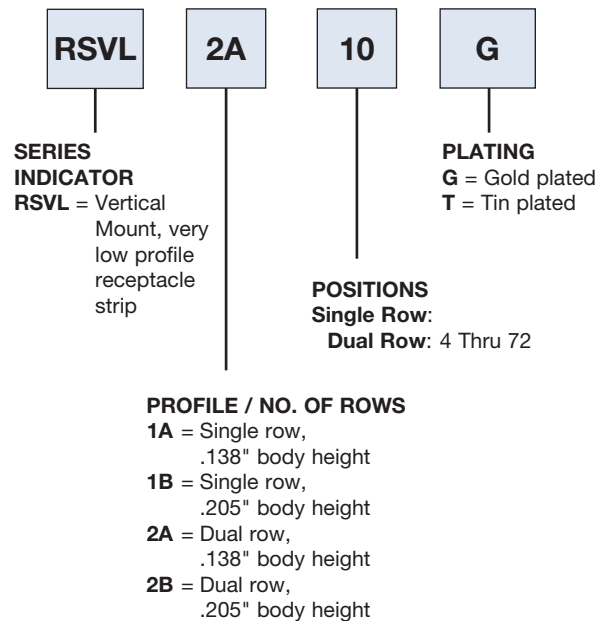
RECEPTACLE STRIPS LOW PROFILE PAGE 297



RECEPTACLE STRIPS BOTTOM, PASS THROUGH OR DUAL ENTRY



RECEPTACLE STRIPS VERY LOW PROFILE PAGE 292



OPTIONS:

Add designator(s) to end of part number

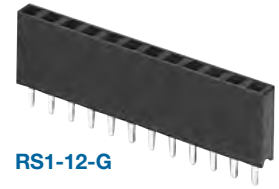
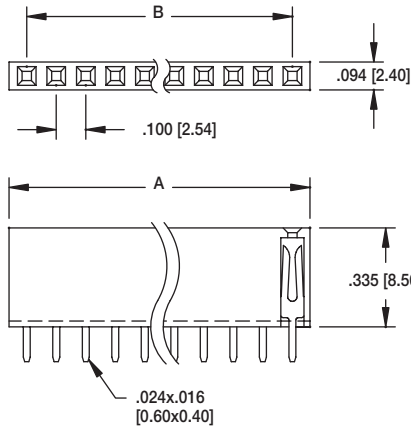
A = Type A PCB Layout

B = Type B PCB Layout

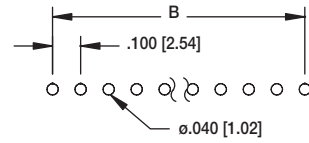
<p>Ordering Information pg. 291</p> <p>A = .100 [2.54] X No. of Positions B = .100 [2.54] X No. of Spaces</p>	<p>RSVL-1A</p> <p>RSVL-1A-18-G</p> <p>Recommended PCB Layout</p>
<p>A = .100 [2.54] X No. of Positions Per Row B = .100 [2.54] X No. of Spaces</p>	<p>RSVL-2A</p> <p>RSVL-2A-38-G</p> <p>Recommended PCB Layout</p>
<p>A = .100 [2.54] X No. of Positions B = .100 [2.54] X No. of Spaces</p>	<p>RSVL-1B</p> <p>RSVL-1B-18-G</p> <p>Recommended PCB Layout</p>
<p>A = .100 [2.54] X No. of Positions Per Row B = .100 [2.54] X No. of Spaces</p>	<p>RSVL-2B</p> <p>RSVL-2B-36-G</p> <p>Recommended PCB Layout</p>

Ordering Information pg. 290

RS1



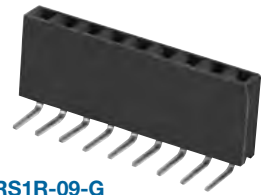
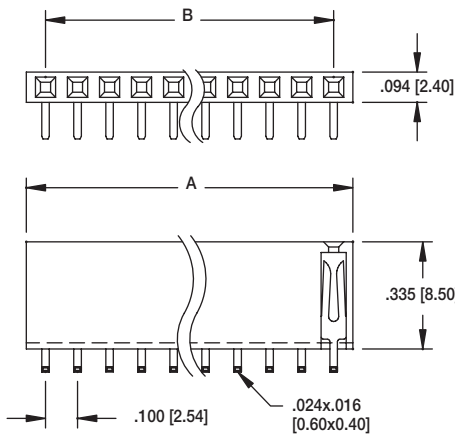
RS1-12-G



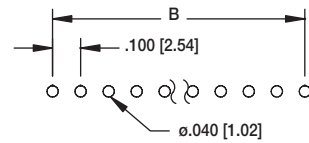
Recommended PCB Layout

A = $.100$ [2.54] X No. of Positions + $.020$ [0.50]
 B = $.100$ [2.54] X No. of Spaces

RS1R



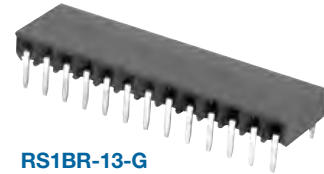
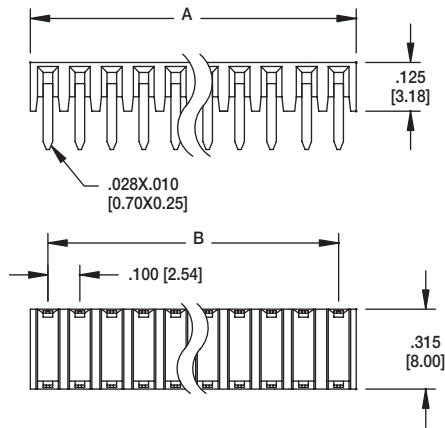
RS1R-09-G



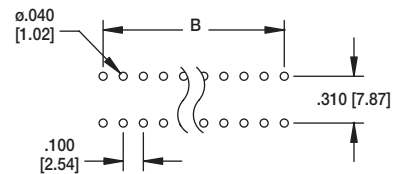
Recommended PCB Layout

A = $.100$ [2.54] X No. of Positions + $.020$ [0.50]
 B = $.100$ [2.54] X No. of Spaces

RS1BR



RS1BR-13-G

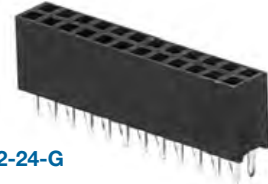
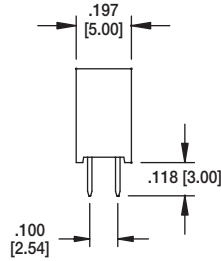
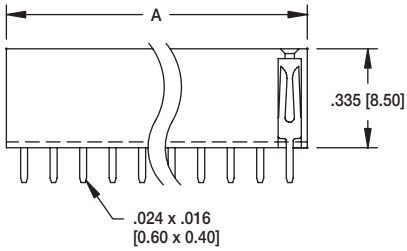
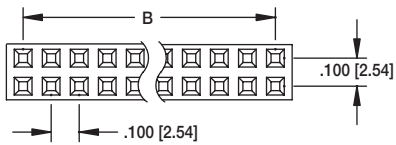


Recommended PCB Layout

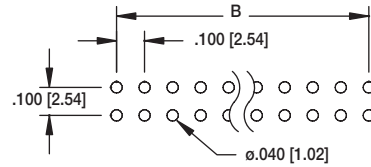
A = $.100$ [2.54] X No. of Positions
 B = $.100$ [2.54] X No. of Spaces

Ordering Information pg. 290-291

RS2



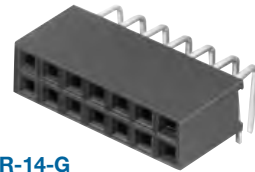
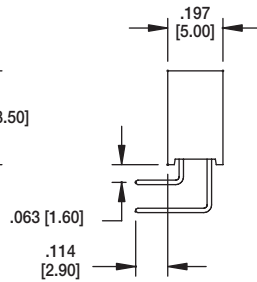
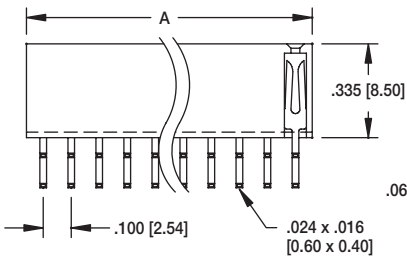
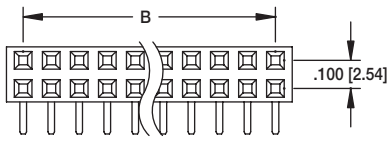
RS2-24-G



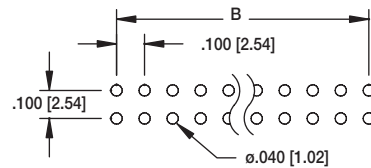
Recommended PCB Layout

A = .100 [2.54] x No. of Positions per row +.020 [0.50]
B = .100 [2.54] x No. of Spaces

RS2R



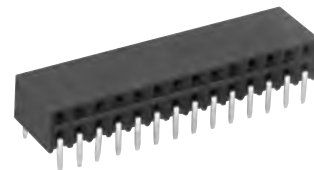
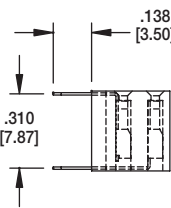
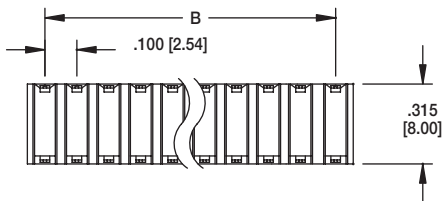
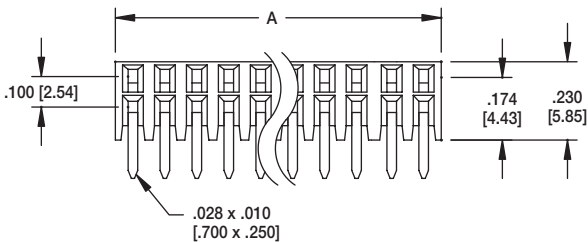
RS2R-14-G



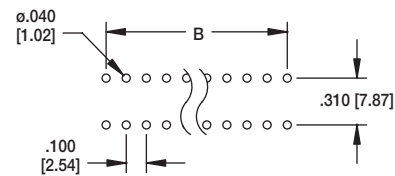
Recommended PCB Layout

A = .100 [2.54] x No. of Positions per row +.020 [0.50]
B = .100 [2.54] x No. of Spaces

RS2BR



RS2BR-28-G

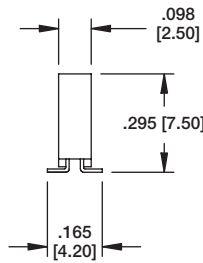
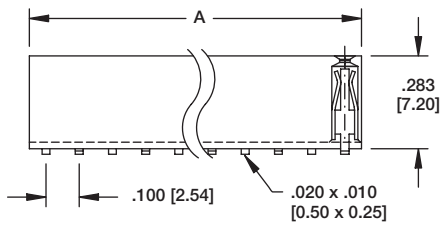
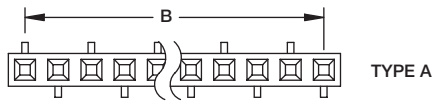
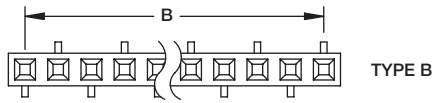


Recommended PCB Layout

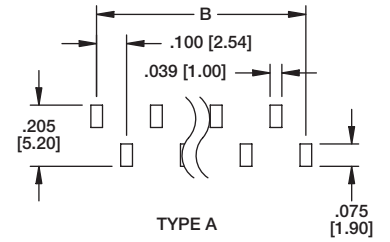
A = .100 [2.54] x No. of Positions per row
B = .100 [2.54] x No. of Spaces

Ordering Information pg. 290

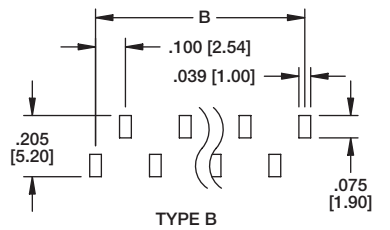
RSM1



RSM1-10-SG-SMT-A



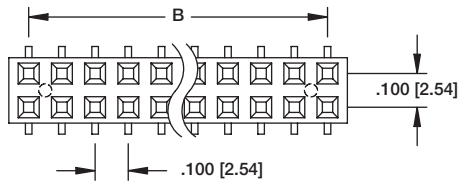
Recommended PCB Layout



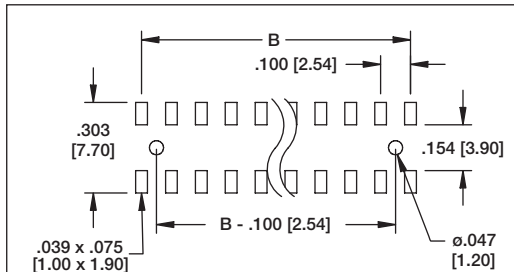
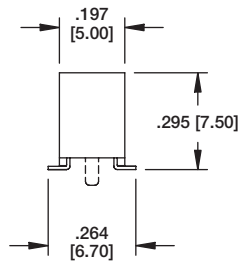
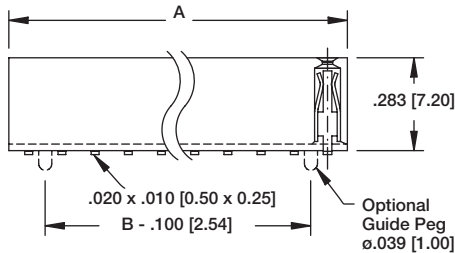
Recommended PCB Layout

A = .100 [2.54] x No. of Positions
B = .100 [2.54] x No. of Spaces

RSM2



RSM2-20-SG-SMT

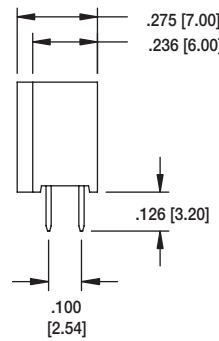
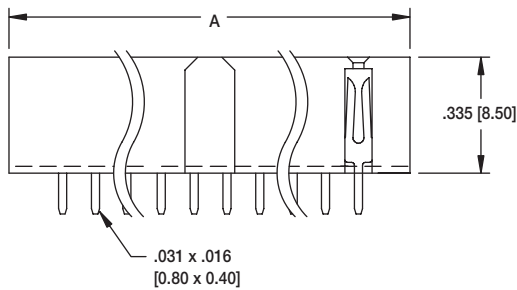
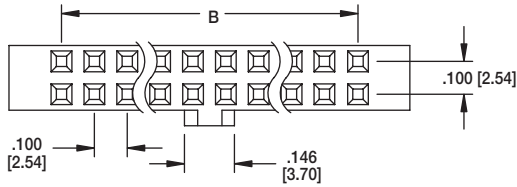


Recommended PCB Layout

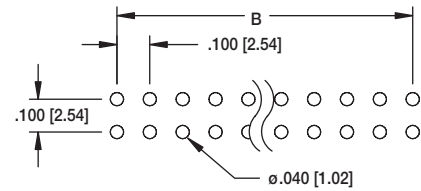
A = .100 [2.54] x No. of Positions per row
B = .100 [2.54] x No. of Spaces

Ordering Information pg. 290

RSB



RSB-36-G

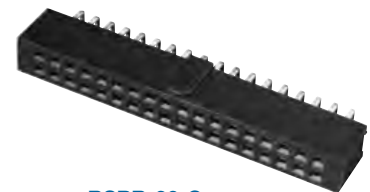
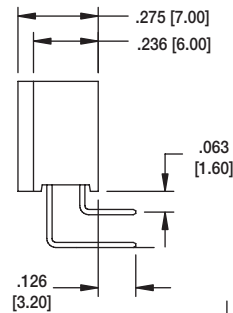
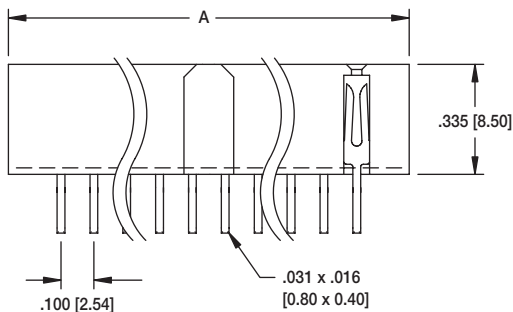
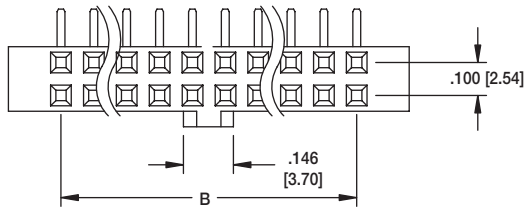


Recommended PCB Layout

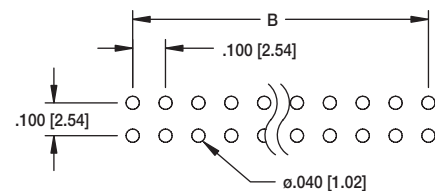
A = .100 [2.54] X No. of Positions + .300 [7.62]

B = .100 [2.54] X No. of Spaces

RSBR



RSBR-36-G



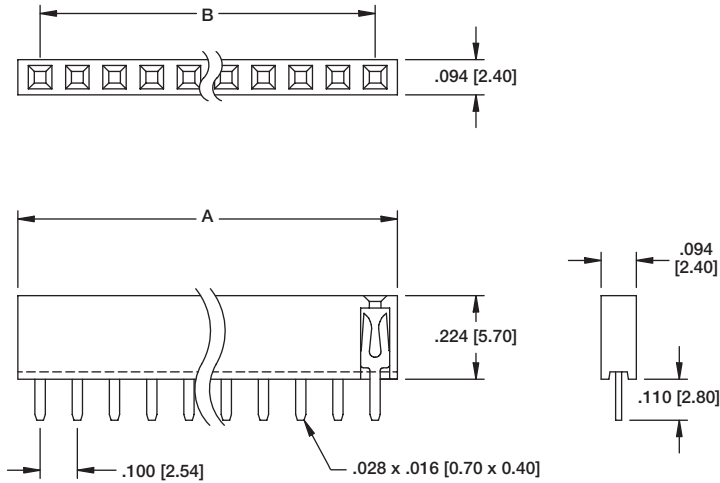
Recommended PCB Layout

A = .100 [2.54] x No. of Positions + .300 [7.62]

B = .100 [2.54] x No. of Spaces

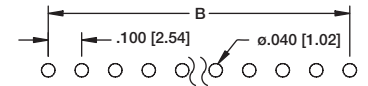
Ordering Information pg. 291

RS1L



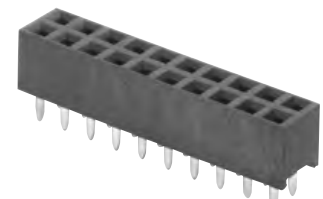
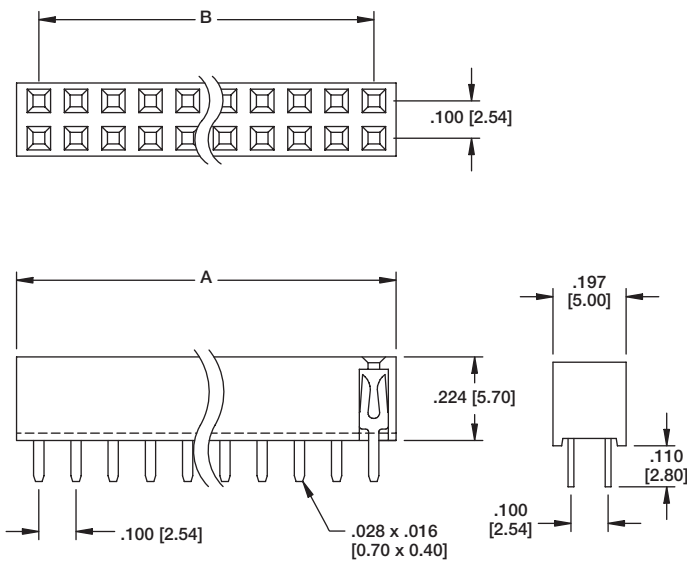
RS1L-10-G

A = .100 [2.54] x No. of Positions
 B = .100 [2.54] x No. of Spaces



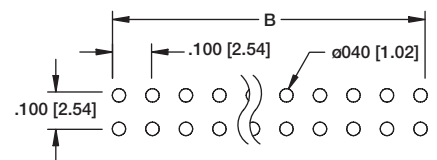
Recommended PCB Layout

RS2L



RS2L-20-G

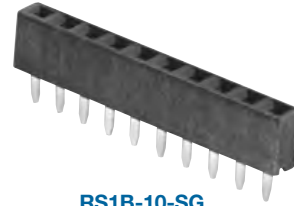
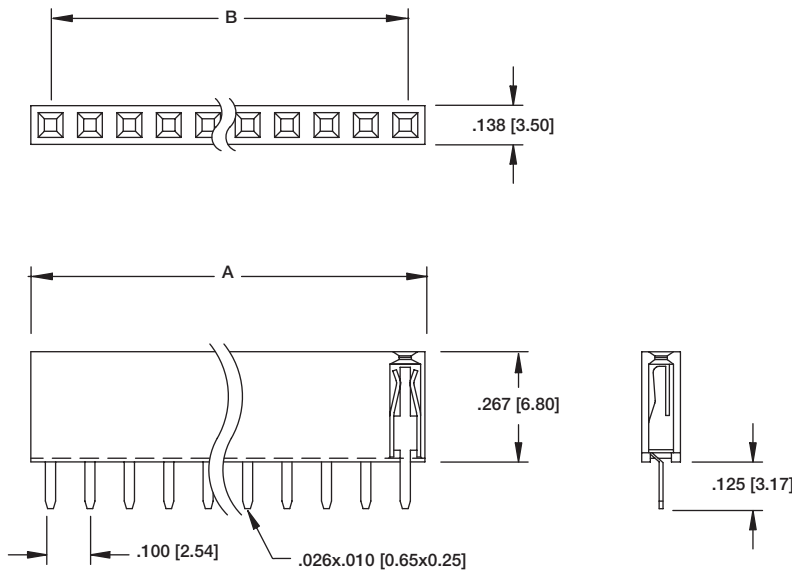
A = .100 [2.54] x No. of Positions per row
 B = .100 [2.54] x No. of Spaces



Recommended PCB Layout

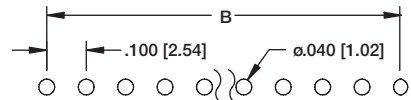
Ordering Information pg. 291

RS1B



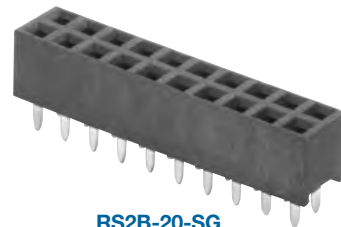
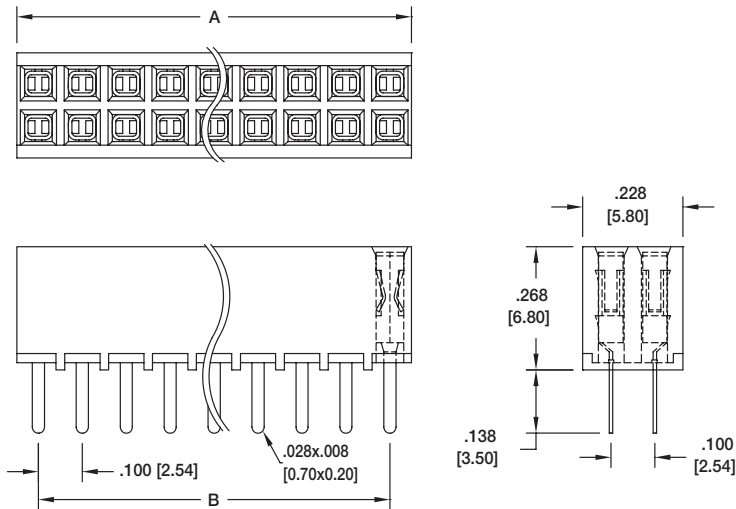
RS1B-10-SG

A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces



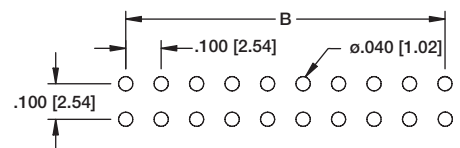
Recommended PCB Layout

RS2B



RS2B-20-SG

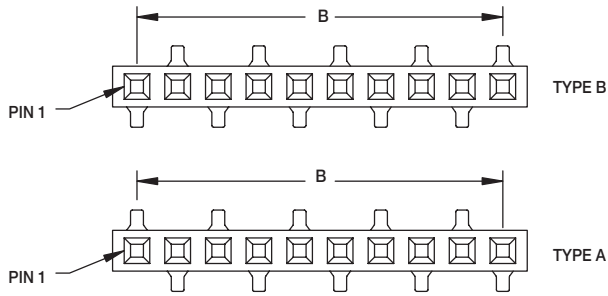
A = .100 [2.54] X No. of Positions per row
B = .100 [2.54] X No. of Spaces



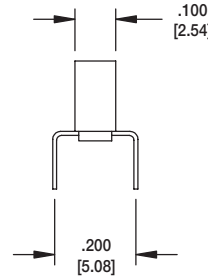
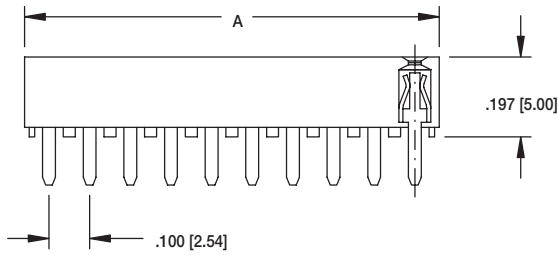
Recommended PCB Layout

Ordering Information pg. 291

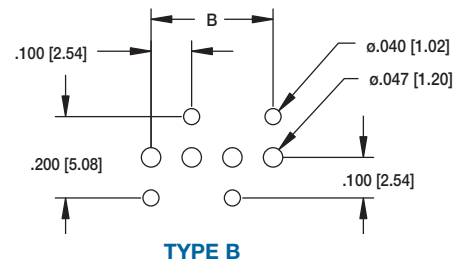
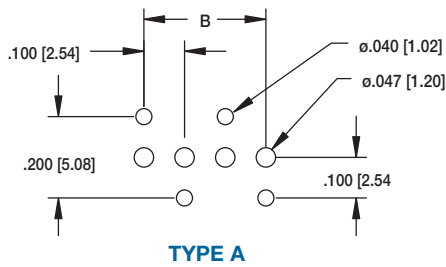
RS1BE-A/B



RS1BE-B-10-SG-A



A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces

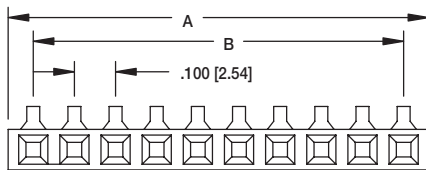


TYPE A

TYPE B

Recommended PCB Layouts

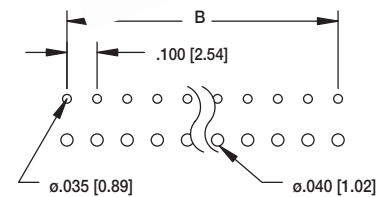
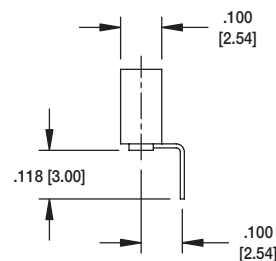
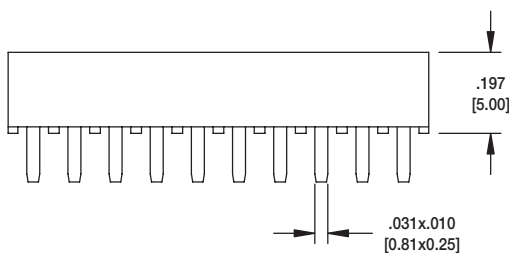
RS1BE



A = .100 [2.54] X No. of Positions
B = .100 [2.54] X No. of Spaces



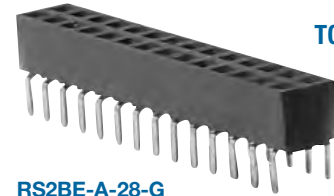
RS1BE-10-SG



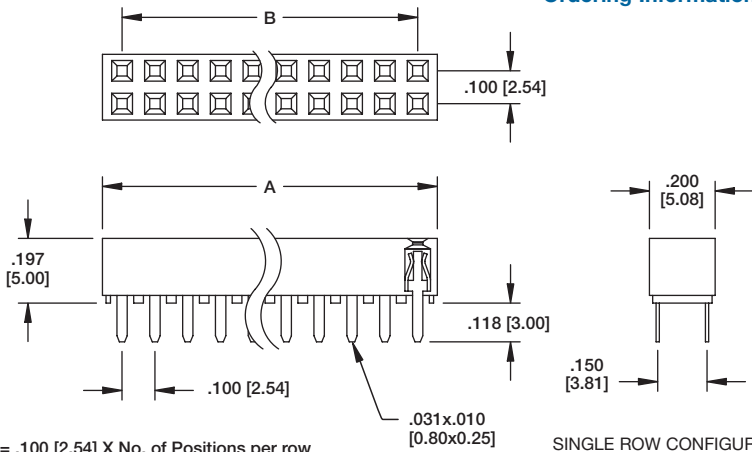
Recommended PCB Layout

Ordering Information pg. 291

**RS2BE-A
TOP ENTRY**

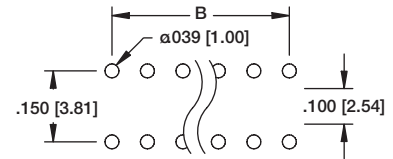


RS2BE-A-28-G



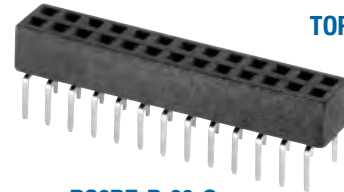
A = .100 [2.54] X No. of Positions per row
B = .100 [2.54] X No. of Spaces

SINGLE ROW CONFIGURATION
ALSO AVAILABLE

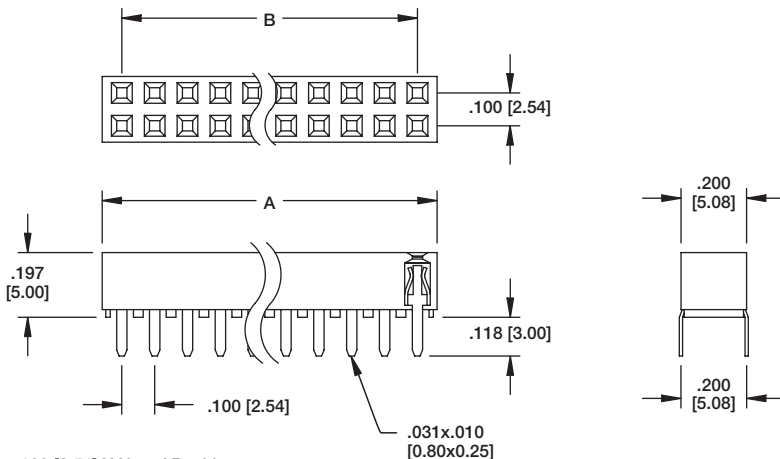


Recommended PCB Layout

**RS2BE-B
TOP OR BOTTOM
ENTRY**

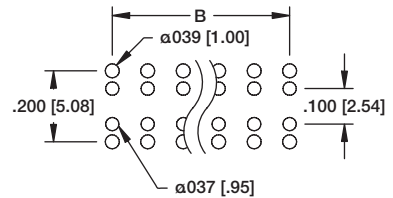


RS2BE-B-26-G



A = .100 [2.54] X No. of Positions per row
B = .100 [2.54] X No. of Spaces

SINGLE ROW CONFIGURATION
ALSO AVAILABLE

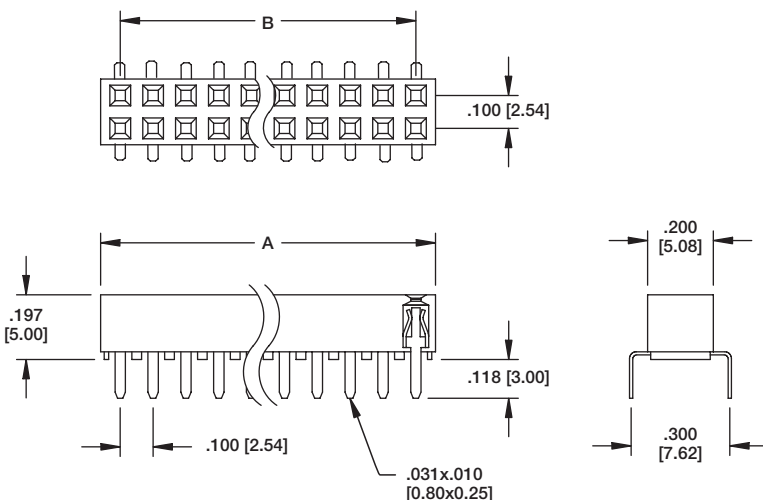


Recommended PCB Layout

**RS2BE-C
TOP OR
BOTTOM ENTRY**

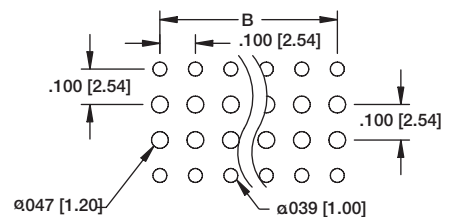


RS2BE-C-30-G



A = .100 [2.54] X No. of Positions per row
B = .100 [2.54] X No. of Spaces

SINGLE ROW CONFIGURATION
ALSO AVAILABLE



Recommended PCB Layout

A = .100" [2.54] x No. of positions
B = .100" [2.54] x No. of spaces

RSE1

RSE1-3-20-SG-3

Recommended PCB Layout

A = .100" [2.54] x No. of positions per row
B = .100" [2.54] x No. of spaces

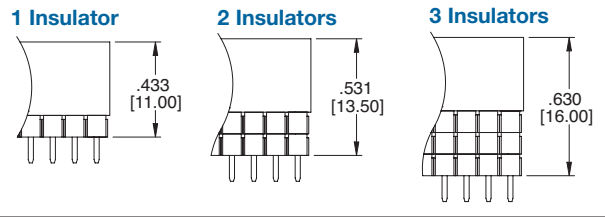
RSE2

RSE2-3-40-SG-3

Recommended PCB Layout

ORDERING INFORMATION

RSE1	2	20	SG	1
<p>SERIES INDICATOR RSE1 = Single row, vertical elevated socket strip RSE2 = Dual row, vertical elevated socket strip</p>	<p>POSITIONS Single Row 01 thru 40 Dual Row 02 thru 80</p>	<p>HEIGHT 1 = .433 [11.00] 2 = .531 [13.50] 3 = .630 [16.00]</p>	<p>PLATING SG = Selective Gold Plating in contact area, Tin Plated tails T = Tin Plated</p>	<p>PIN LENGTH Dim. D See chart Dim.D</p>



PART NUMBER	INSULATORS	DIM. C	DIM. D
RSEX-1-XX-SG-1	1	.433 [11.00]	.118 [3.00]
RSEX-1-XX-SG-2	1	.433 [11.00]	.315 [8.00]
RSEX-1-XX-SG-3	1	.433 [11.00]	.448 [11.40]
RSEX-2-XX-SG-1	2	.531 [13.50]	.216 [5.50]
RSEX-3-XX-SG-1	3	.635 [16.12]	.118 [3.00]
RSEX-3-XX-SG-2	3	.635 [16.12]	.252 [6.40]

*Replace "X" with "1" for single row or "2" for double row.
 *Replace "XX" with total number of positions.

.100" & .156" RECEPTACLE WITH BOARD HOOKS

.100" & .156" CENTERLINE
PCE SERIES

INTRODUCTION:

Adam Tech PCE & PCD Series receptacles are PCB mounted sockets that have integral PC Board hooks which wrap around the edge of the PCB for added stability. They are made with three mounting and mating configurations which include Top, Bottom & Side entry. Offered in pitches of .100" & .156" they contain a high reliability contact system that offers superior connectivity through a set of long, wide, precision stamped contacts which provide ample contact pressure with a smooth wiping action.

FEATURES:

- .100" & .156" Centerlines
- Hooks for stability to PCB
- High normal force contacts
- Low insertion force
- Three mounting orientation options

MATING HEADERS:

Adam Tech PH & LHB headers and all industry standard .100" and .156" pitch pin headers with a .025" or .045" square or round pins

SPECIFICATIONS:

Material:

Insulator: Nylon 66, rated UL94V-0
Insulator Color: Natural
Contacts: Phosphor Bronze

Contact Plating:

Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.
Current rating: .100 pitch: 3 Amp max.
.156 pitch: 7 Amps max.
Contact resistance: 10 mΩ max. Initial
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1500V AC for 1 minute

Mechanical:

Insertion force: 0.375 lbs max
Withdrawal force: 0.187 lbs min.
Recommended PCB Thickness: 0.063" (1.6mm)

Temperature Rating:

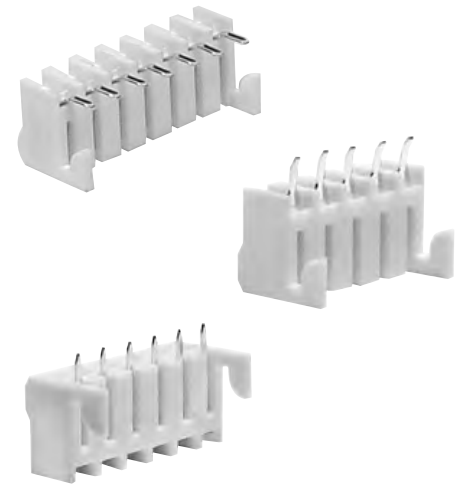
Operating temperature: -40°C to +105°C

PACKAGING:

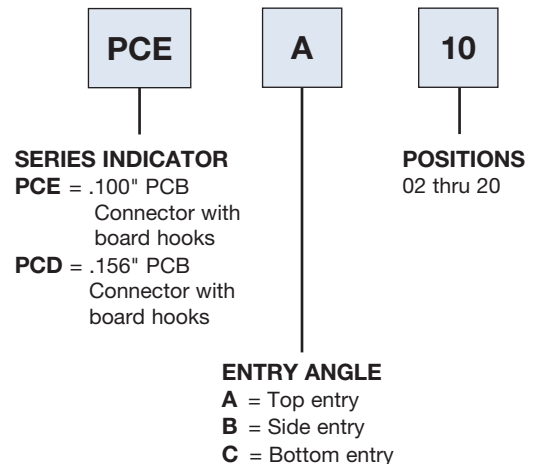
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION

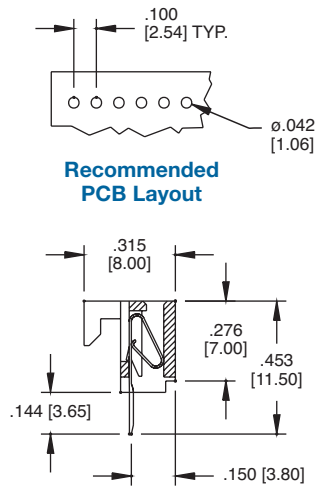
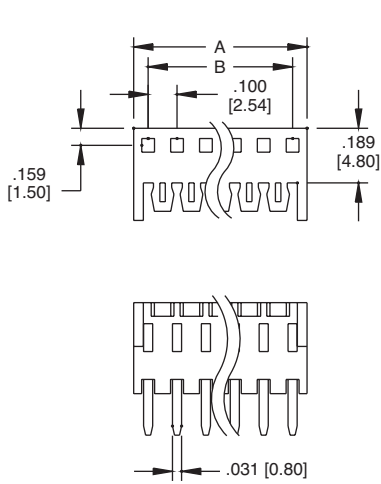


OPTIONS

Add designator(s) to end of part number
NH = No Board hooks



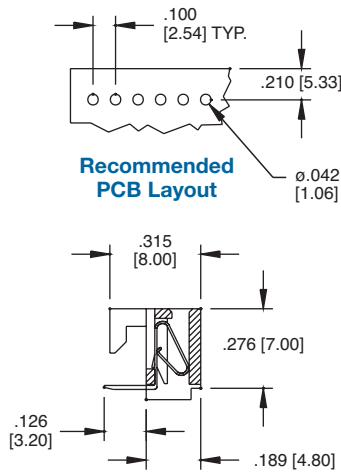
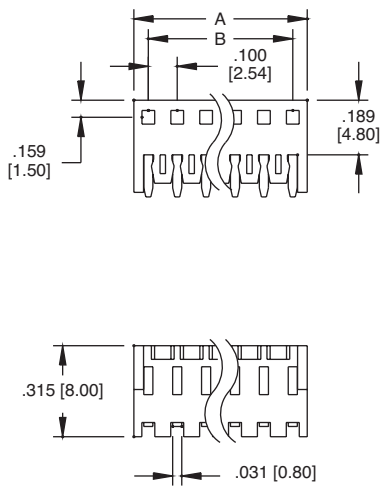
PCE-A



**TOP ENTRY
PCE-A-05**

A = .100 [2.54] x No. of Positions
B = .100 [2.54] x No. of Spaces

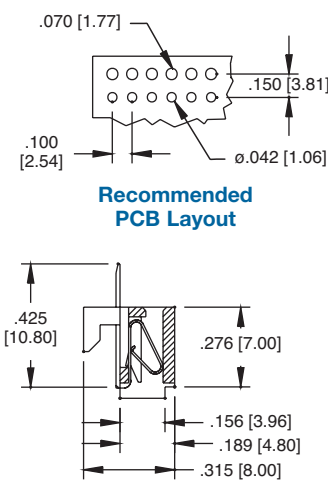
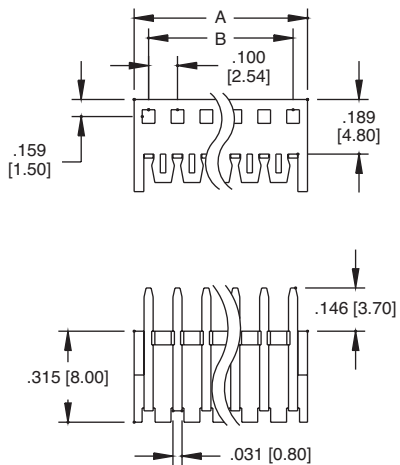
PCE-B



**SIDE ENTRY
PCE-B-07**

A = .100 [2.54] x No. of Positions
B = .100 [2.54] x No. of Spaces

PCE-C



**BOTTOM ENTRY
PCE-C-06**

A = .100 [2.54] x No. of Positions
B = .100 [2.54] x No. of Spaces

	<p>Recommended PCB Layout</p>	<p>PCD-A</p> <p>TOP ENTRY PCD-A-05</p> <p>A = .156 [3.96] x No. of Positions B = .156 [3.96] x No. of Spaces</p>
	<p>Recommended PCB Layout</p>	<p>PCD-B</p> <p>SIDE ENTRY PCD-B-07</p> <p>A = .156 [3.96] x No. of Positions B = .156 [3.96] x No. of Spaces</p>
	<p>Recommended PCB Layout</p>	<p>PCD-C</p> <p>BOTTOM ENTRY PCD-C-06</p> <p>A = .156 [3.96] x No. of Positions B = .156 [3.96] x No. of Spaces</p>

INTRODUCTION:

Adam Tech .050" IDC Sockets and Transition Plugs are low profile, precision designed flat cable connectors that feature either .050" x .100" centerlines or .050" x .050" centerlines. These series quickly and easily mass terminate flat cable in one simple step. Our superior contact design provides a smooth, high pressure wiping action to ensure excellent continuity. They are used with a single layer of .025" flat cable. Their small size, light weight and high density make them ideal for compact and limited space applications.

FEATURES:

- .050" x .050" or .050" x .100"
- Low Profile and High Density
- Uses Single layer .025" Flat Cable
- Quickly and easily mass terminates standard Flat Cable
- Smooth High Pressure Wiping Contacts

MATING CONNECTORS:

Adam Tech .050" HBHR series box headers, latch headers or HPH2 series pin headers

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0

Insulator Color: Black

Contacts: Phosphor Bronze

Contact Plating:

Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.

Current rating: 1 Amp max.

Contact resistance: 20 mΩ max. Initial

Insulation resistance: 5000 MΩ min.

Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.312 lbs per contact max.

Withdrawal force: 0.094 lbs per contact min.

Recommended wire size: 28 Awg stranded

Cable retention: 22 lbs. min axial force per inch.

Mating durability: 500 cycles min.

Temperature Rating:

Operating temperature: -40°C to +105°C

PACKAGING:

Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION



SERIES INDICATOR

HFCS = Low profile
.050" x .100" IDC
Socket for single
layer .025"
Flat Cable

HFCS-A = Low profile
.050" x .050" IDC
Socket for single
layer .025"
Flat Cable

HFTR = .050" Transition
plug

HFDP = .050" Paddleboard
Connector for
single layer .025"
Flat Cable

FDH = 4 Row
Transition plug

PLATING

SG = Selective
gold plating
in contact
area, nickel
plating in
termination
area

T = Tin plated
(HFDP &
FDH only)

POSITIONS

HFCS: 10, 20, 30, 40,
50, 60, 70, 80,
90, 100

HFCS-A: 10, 20, 26, 34,
40, 50

HFDP: 30, 50, 68,
72, 80, 100

HFTR: 10, 12, 14, 16,
20, 22, 26, 30,
34, 40, 44, 50

FDH: 10, 14, 16,
20, 26, 34,
40, 50, 60

HFCS SERIES STRAIN RELIEF

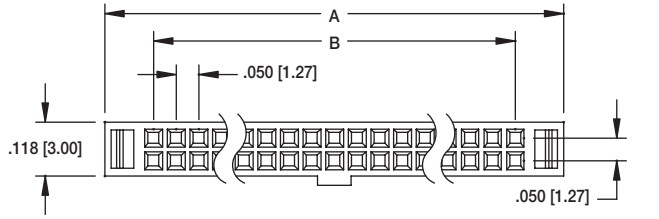
HFSSR-X (replace X with number of positions)

OPTIONS

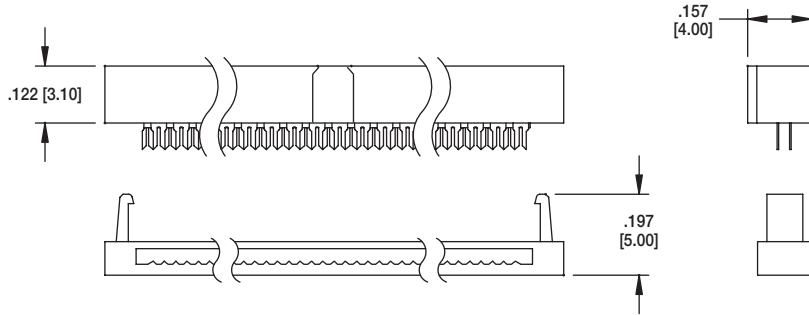
Add designator(s) to end of part number

N = No polarization bump (HFCS series)

HFCS-A .050" X .050"

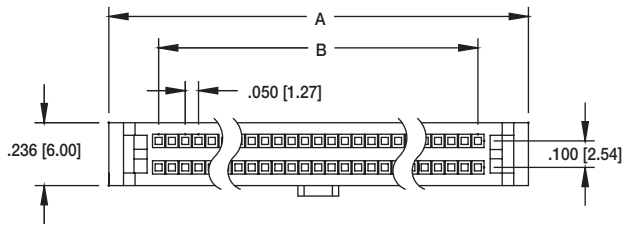


HFCS-A-34-SG

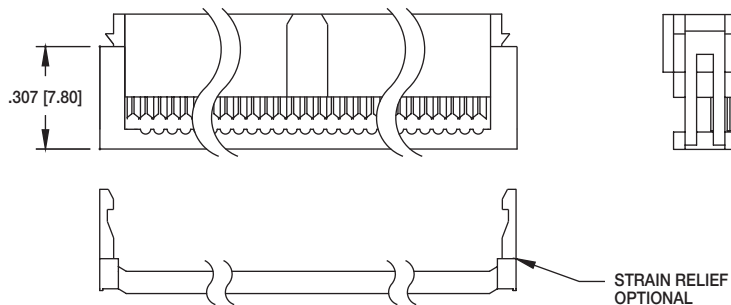


PART No. & POSITIONS	DIMENSIONS	
	A	B
HFCS-A-10 SG	.450 [5.08]	.413 [10.50]
HFCS-A-20 SG	.450 [11.43]	.665 [16.90]
HFCS-A-26 SG	.600 [15.24]	.815 [20.70]
HFCS-A-34 SG	.800 [20.32]	1.016 [25.80]
HFCS-A-40 SG	.950 [24.13]	1.165 [29.60]
HFCS-A-50 SG	1.200 [30.48]	1.413 [35.90]

HFCS .050" X .100"



HFCS-40-SG



PART No. & POSITIONS	Dimensions	
	A	B
HFCS-10 SG	0.437 [5.08]	0.200 [11.10]
HFCS-20 SG	0.687 [11.43]	0.450 [17.45]
HFCS-30 SG	0.937 [17.78]	0.700 [23.80]
HFCS-40 SG	1.187 [24.13]	0.950 [30.15]
HFCS-50 SG	1.437 [30.48]	1.200 [36.50]
HFCS-60 SG	1.687 [36.83]	1.450 [42.85]
HFCS-70 SG	1.937 [43.18]	1.700 [49.20]
HFCS-80 SG	2.187 [49.53]	1.950 [55.55]
HFCS-90 SG	2.437 [55.88]	2.200 [61.90]
HFCS-100 SG	2.687 [62.23]	2.450 [68.25]

Recommended PCB Layout

HFTR

HFTR-26-T

Part No.	A		B	
	in	mm	in	mm
HFTR-10-T	.413	10.50	.200	5.08
HFTR-12-T	.464	11.80	.250	6.35
HFTR-14-T	.515	13.10	.300	7.62
HFTR-16-T	.563	14.30	.350	8.89
HFTR-20-T	.665	16.90	.450	11.43
HFTR-22-T	.712	18.10	.500	12.70
HFTR-26-T	.815	20.70	.600	15.24
HFTR-30-T	.917	23.30	.700	17.78
HFTR-34-T	1.015	25.80	.800	20.32
HFTR-40-T	1.165	29.60	.950	24.13
HFTR-44-T	1.263	32.10	1.050	26.67
HFTR-50-T	1.413	35.90	1.200	30.48

Recommended PCB Layout

HFDP

HFDP-80-T

Part No.	A		B	
	in	mm	in	mm
HFDP-30-T	0.938	23.83	0.700	17.78
HFDP-50-T	1.438	36.53	1.200	30.48
HFDP-68-T	1.888	47.96	1.650	41.91
HFDP-80-T	2.188	55.58	1.950	49.53
HFDP-100-T	2.688	68.28	2.450	62.23

Recommended PCB Layout

FDH

FDH-34-T

Part No.	A		B	
	in	mm	in	mm
FDH-10-T	.689	17.50	.450	11.43
FDH-14-T	.889	22.58	.650	16.51
FDH-16-T	.989	25.12	.750	19.05
FDH-20-T	1.189	30.20	.950	24.13
FDH-26-T	1.489	37.82	1.250	31.75
FDH-34-T	1.889	47.98	1.650	41.91
FDH-40-T	2.189	55.60	1.950	49.53
FDH-50-T	2.689	68.30	2.450	62.23
FDH-60-T	3.189	81.00	2.950	74.93

2.00mm IDC SOCKET & TRANSITION PLUG

.079" [2.00 X 2.00] CENTERLINE
2FCS & 2FTR SERIES

INTRODUCTION:

Adam Tech 2FCS Series 2.00mm IDC Sockets are low profile, precision designed flat cable sockets that feature 2.00mm pin to pin and row to row centerlines. These sockets quickly and easily mass terminate flat cable in one simple step. Their versatility allows them to mate with a multitude of 2.00mm pin headers. Our superior selectively gold plated contact design provides a smooth, high pressure wiping action to ensure excellent continuity. They are used with a single layer of 1.00mm flat cable. Their small size, light weight and high density make them ideal for compact and limited space applications.

FEATURES:

Low Profile and High Density
Uses Single layer 1.00mm Flat Cable
Quickly and easily mass terminates standard Flat Cable

MATING CONNECTORS:

Adam Tech 2.0mm 2BHR series box headers, 2MHR latch headers and 2PH series pin headers

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0
Insulator Color: Black
Contacts: Phosphor Bronze

Contact Plating:

Gold flash (30 μ m optional) over nickel underplate on contact area, tin over copper underplate on IDC area

Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 20 m Ω max. initial
Insulation resistance: 3000 M Ω min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion force: 0.661 lbs per contact max.
Withdrawal force: 0.044 lbs per contact min.
Recommended wire size: 30 - 28 Awg stranded
Cable retention: 24 lbs. min axial force per inch.
Mating durability: 500 cycles min.

Temperature Rating:

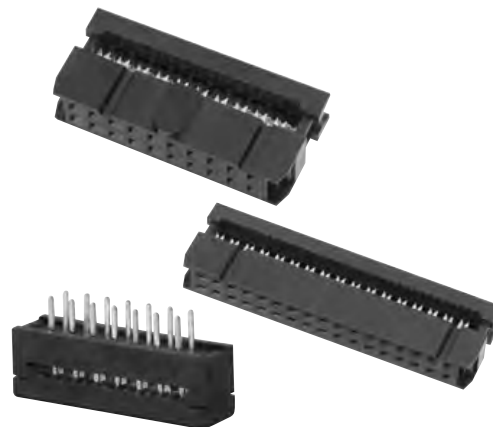
Operating temperature: -40°C to +105°C

PACKAGING:

Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION

2FCS

40

SG

SERIES INDICATOR

2FCS = 2.00mm Flat Cable IDC Socket

2FTR = 2.00mm Flat Cable Transition Plug

PLATING OPTIONS

SG = Selectively Gold-Plated

POSITIONS

2FCS:

06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 34, 36, 40, 44, 50, 60, 68

2FTR:

08, 10, 12, 14, 16, 20, 22, 24, 26, 30, 34, 40, 44, 50, 68

NOTE:

Mating Box Headers for 2FCS series located on page 302-303

OPTIONS:

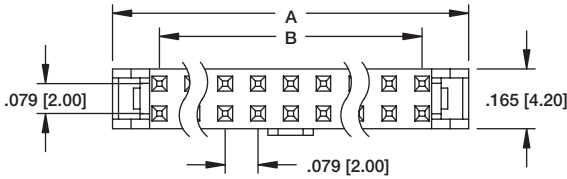
Add designator(s) to end of part number

30 = 30 μ m gold plating in contact area

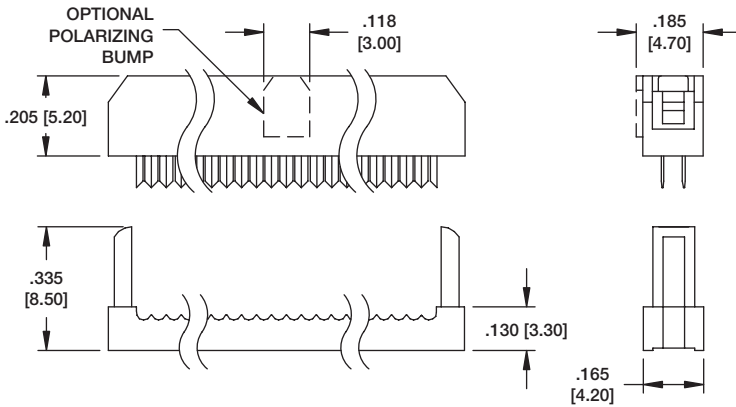
PB = Polarizing bump



2FCS

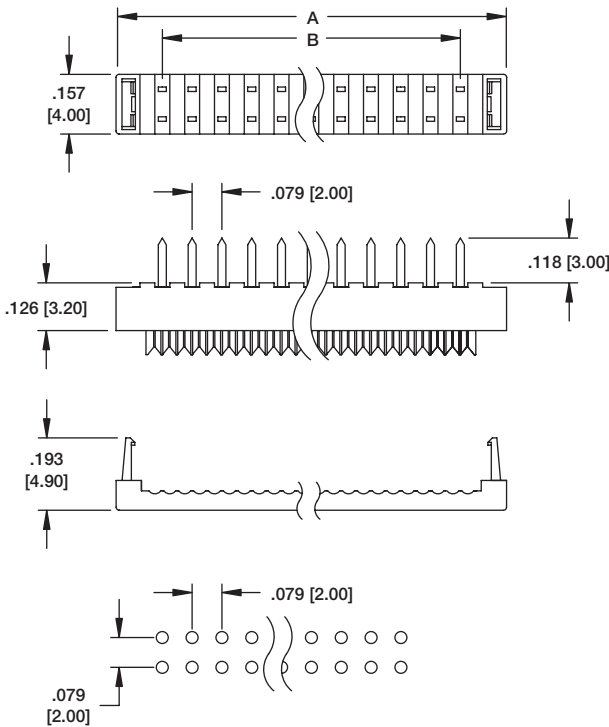


2FCS-20-SG



PART No. & POSITIONS	DIMENSIONS	
	A	B
2FCS-20-SG	.992 [25.10]	.709 [18.00]
2FCS-22-SG	1.071 [27.20]	.787 [20.00]
2FCS-24-SG	1.150 [29.20]	.866 [22.00]
2FCS-26-SG	1.228 [31.00]	.945 [24.00]
2FCS-34-SG	1.543 [39.20]	1.260 [32.00]
2FCS-36-SG	1.622 [41.20]	1.339 [34.00]
2FCS-40-SG	1.780 [45.10]	1.496 [38.00]
2FCS-44-SG	1.937 [49.20]	1.654 [42.00]
2FCS-50-SG	2.773 [55.10]	1.890 [48.00]
2FCS-60-SG	2.567 [65.20]	2.283 [58.00]
2FCS-68-SG	2.882 [73.20]	2.598 [66.00]

2FTR



2FTR-20-T

PART No. & POSITIONS	DIMENSIONS	
	A	B
2FTR-08-T	.480 [12.20]	.236 [6.00]
2FTR-10-T	.559 [14.20]	.315 [8.00]
2FTR-12-T	.637 [16.20]	.3937 [10.00]
2FTR-14-T	.716 [18.20]	.472 [12.00]
2FTR-16-T	.795 [20.20]	.551 [14.00]
2FTR-20-T	.952 [24.20]	.629 [16.00]
2FTR-22-T	1.031 [26.20]	.708 [18.00]
2FTR-24-T	1.110 [28.20]	.866 [22.00]
2FTR-26-T	1.189 [30.20]	.945 [24.00]
2FTR-34-T	1.503 [38.20]	1.260 [32.00]
2FTR-40-T	1.740 [44.20]	1.496 [38.00]
2FTR-44-T	1.897 [48.20]	1.654 [42.00]
2FTR-50-T	2.133 [54.20]	1.890 [48.00]
2FTR-68-T	2.842 [72.20]	2.598 [66.00]

Recommended PCB Layout

INTRODUCTION:

Adam Tech FCS Series .100" IDC Sockets are extremely popular, low profile, precision designed flat cable sockets that feature .100" pin to pin and row to row centerlines. These sockets quickly and easily mass terminate flat cable in one simple step. Their versatility allows them to mate with a multitude of .025" sq. post pin headers. Our superior selectively gold plated contact design provides a smooth high pressure wiping action to ensure excellent continuity. They are used with a single layer of .050" flat cable. Their small size, light weight, low cost and high density make them ideal for use in many applications.

FEATURES:

Choice of Single or Dual beam contact design
 Low Profile and High Density
 Uses Single layer .050" standard Flat Cable
 Quickly and easily mass terminates Flat Cable
 Smooth High Pressure Wiping Contacts

MATING CONNECTORS:

Adam Tech .100" BHR series box headers and PH2 series pin headers

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0
 Insulator Color: Black
 Contacts: Phosphor Bronze

Contact Plating:

Gold flash (30 μ in optional) over nickel underplate on contact area, tin over copper underplate on IDC area

Electrical:

Operating voltage: 250V AC max.
 Current rating: 1 Amp max.
 Contact resistance: 30 m Ω max. initial
 Insulation resistance: 1000 M Ω min.
 Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

Insertion force: FCS-D2: 0.5 lbs per contact max.
 Withdrawal force: FCS-D2: 0.094 lbs per contact min.
 Recommended wire size: 28 Awg stranded
 Cable retention: 28 lbs. min axial force per inch.
 Mating durability: 500 cycles min.

Temperature Rating:

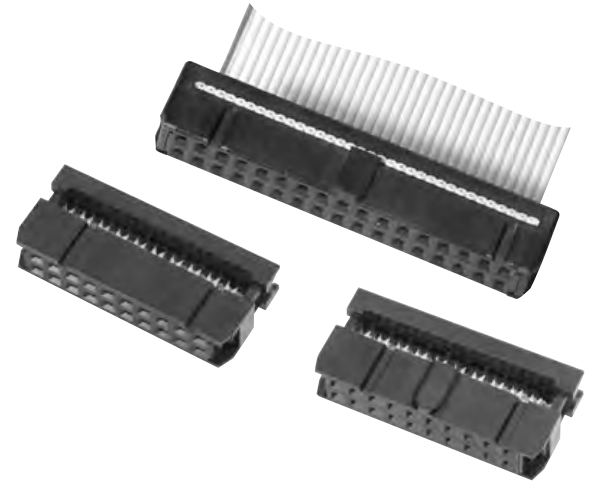
Operating temperature: -40°C to +105°C

PACKAGING:

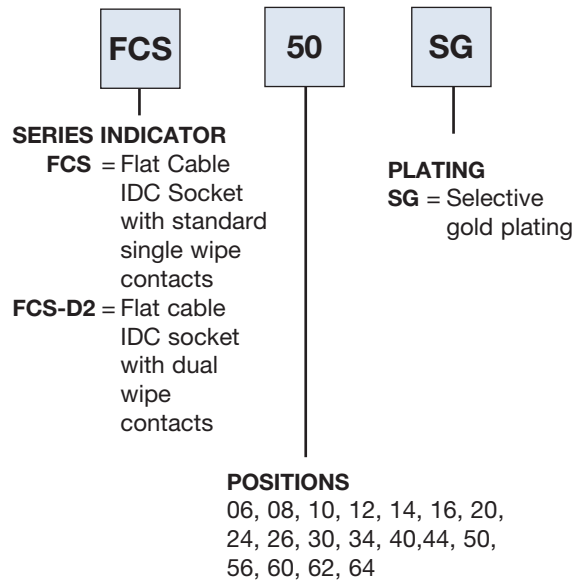
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION



Note: Mating box headers for this series located on pages 283-289

STRAIN RELIEF:

FSR-XX (XX = No. of Positions)

PULL TABS:

PT-XX (No. of positions)

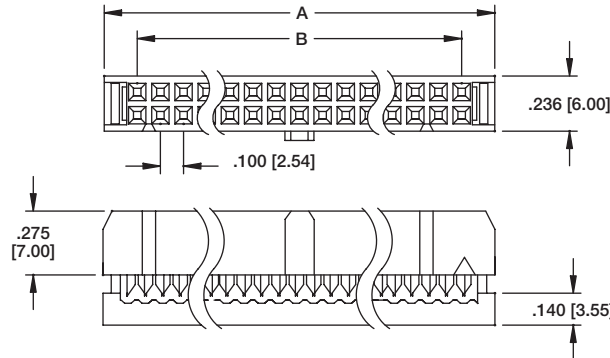
KEYING PLUGS:

FCS-K (Key plugs can also be molded into connector, consult factory)

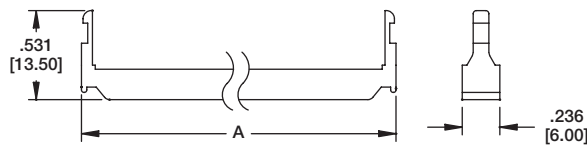
OPTIONS:

Add designator(s) to end of part number
30 = 30 μ in gold in contact area
GY = Gray color insulator
N = No polarization bump

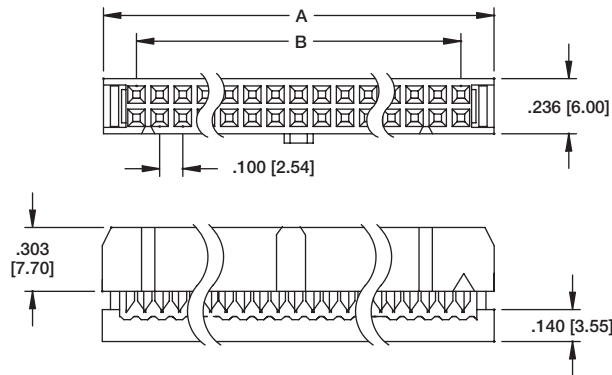
FCS SINGLE WIPE CONTACT



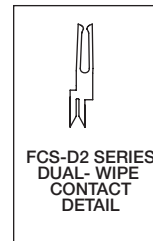
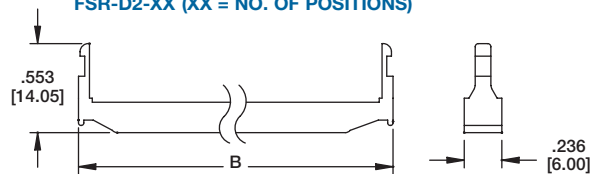
FCS STRAIN RELIEF: FSR-XX (XX = NO. OF POSITIONS)



FCS-D2 DUAL WIPE CONTACT



FCS-D2 STRAIN RELIEF: FSR-D2-XX (XX = NO. OF POSITIONS)



DIMENSIONS

POSITIONS	6	8	10	12	14	16	20	24	26	30	34	40	44	50	56	60	62	64
B	0.200 [5.08]	0.300 [7.62]	0.400 [10.16]	0.500 [12.70]	0.600 [15.24]	0.700 [17.78]	0.900 [22.86]	1.100 [27.94]	1.200 [30.48]	1.400 [35.56]	1.600 [40.64]	1.900 [48.26]	2.100 [53.34]	2.400 [60.96]	2.700 [68.58]	2.900 [73.66]	3.000 [76.20]	3.100 [78.74]
A	0.480 [12.19]	0.580 [14.73]	0.680 [17.27]	0.780 [19.81]	0.880 [22.35]	0.980 [24.89]	1.180 [29.97]	1.380 [35.05]	1.480 [37.59]	1.680 [42.67]	1.880 [47.75]	2.180 [55.37]	2.380 [60.45]	2.680 [68.07]	2.980 [75.69]	3.180 [80.77]	3.280 [83.31]	3.380 [85.85]

INTRODUCTION:

Adam Tech FCE Series IDC Card Edge Connectors are designed to quickly and easily mass terminate .050" flat cable and mate directly with the plated fingers of a PCB as a card edge connector. Our superior designed crimp cap features guides to reduce occurrence of mis-mating and our specially engineered contacts provide strong wiping action and high retention to the PCB.

FEATURES:

Available with or without mounting ears
Special "easy fit" cap reduces mis-mating
High Retention to PCB
Selectively Gold plated Bifurcated contacts

MATING OPTIONS:

Printed circuit boards with a thickness of .058" to .070"

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0
Insulator Color: Black, (Gray optional)
Contacts: Phosphor Bronze

Contact Plating:

Gold flash (30 μ in optional) over nickel underplate on contact area, tin over copper underplate on IDC area

Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max.
Contact resistance: 30 m Ω max. initial
Insulation resistance: 1000 M Ω min.
Dielectric withstanding voltage: 500V AC for 1 minute

Mechanical:

PCB Insertion force: 0.406 lbs per contact max.
With .062 thick board
Withdrawal force: 0.312 lbs per contact min.
With .062 thick board
Recommended wire size: 28 Awg stranded
Cable retention: 28 lbs. min axial force per inch.
Mating durability: 500 cycles min.

Temperature Rating:

Operating temperature: -40°C to +105°C

PACKAGING:

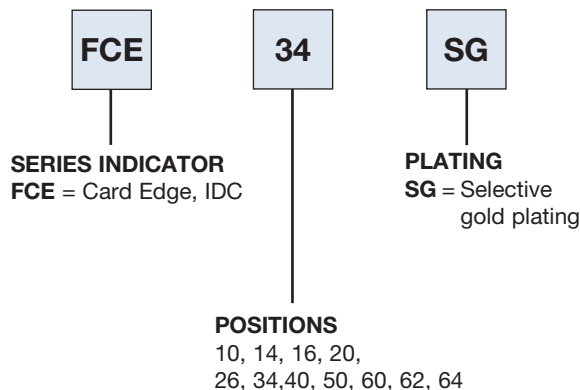
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION



STRAIN RELIEF:

FCR - XX (XX= No. of Positions)

KEYING PLUGS:

FCE-K (Key plugs can also be molded into connector, consult factory)

OPTIONS:

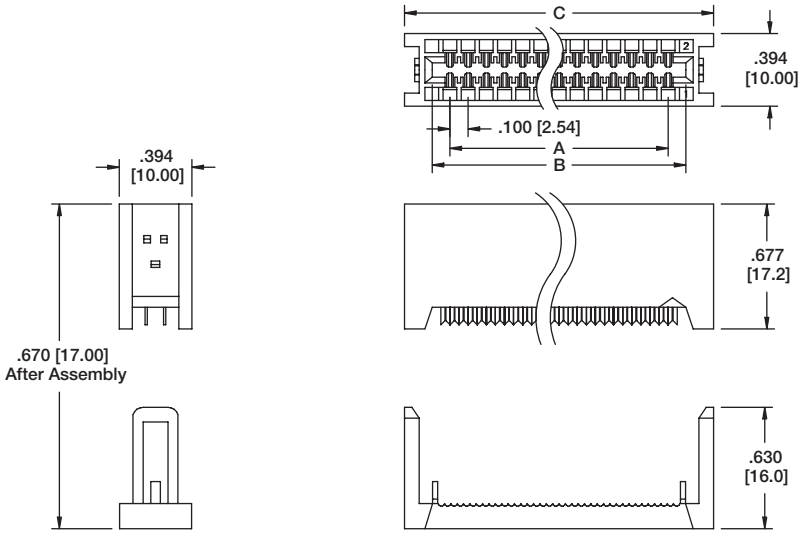
Add designator(s) to end of part number

30 = 30 μ in gold plating in contact area

GY = Gray color insulator

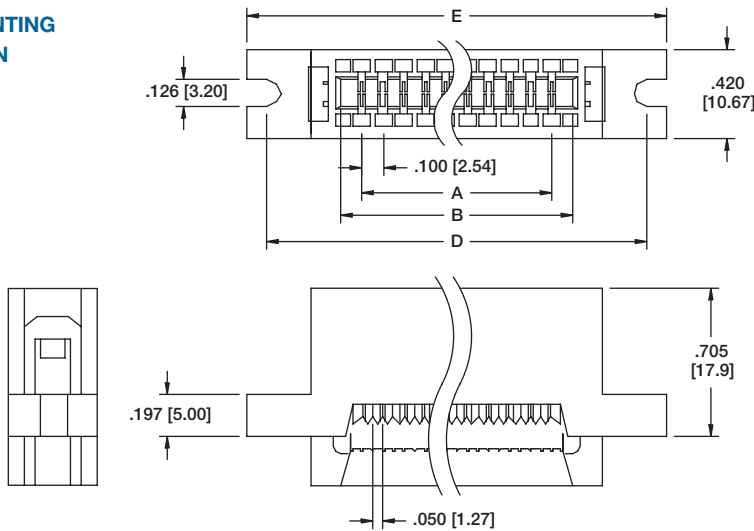
E = Mounting ears with slotted mounting holes

FCE



FCE-20-SG

FCE WITH MOUNTING EAR OPTION



FCE-20-SG-E

DIMENSIONS											
POSITIONS	10	14	16	20	26	34	40	50	60	62	64
A	.400 [10.16]	.600 [15.24]	.700 [17.78]	.900 [22.86]	1.200 [22.86]	1.600 [40.64]	1.900 [48.26]	2.400 [60.96]	2.900 [73.66]	3.000 [76.20]	3.100 [78.74]
B	.604 [15.34]	.804 [20.42]	.904 [22.96]	1.1040 [28.04]	1.404 [35.66]	1.804 [45.82]	2.104 [53.44]	2.604 [66.14]	3.104 [78.84]	3.204 [81.38]	3.304 [83.92]
C	.872 [22.15]	1.072 [27.23]	1.172 [29.77]	1.372 [34.85]	1.672 [42.47]	2.072 [52.63]	2.372 [60.25]	2.872 [72.95]	3.372 [85.65]	3.472 [88.19]	3.304 [90.73]
D	1.300 [33.02]	1.500 [38.10]	1.600 [40.64]	1.800 [45.72]	2.100 [53.34]	2.500 [63.50]	2.800 [71.12]	3.300 [83.82]	3.800 [96.52]	N / A	4.000 [101.60]
E	1.500 [38.10]	1.700 [43.18]	1.800 [45.72]	2.000 [50.80]	2.300 [58.42]	2.700 [68.58]	3.000 [76.20]	3.500 [88.90]	4.000 [101.60]	N / A	4.200 [106.68]

INTRODUCTION:

Adam Tech FCP Series IDC Box Headers are designed to quickly and easily mass terminate to .050" flat cable. The IDC termination is converted to a Shrouded Box Header output with a polarizing slot that mates with standard IDC sockets. This connector is ideal for splicing and making "T" taps to a cable bus. Adam Tech's sturdy design features solid, selectively gold plated .025"sq. copper alloy posts.

FEATURES:

IDC Flat Cable to Shrouded Box Header
Mates with standard IDC sockets
Ideal for splicing and "T" taps to cable bus
Solid selectively gold plated contacts

MATING CONNECTORS:

Mates with Adam Tech FCS Series .100" [2.54mm] dual row IDC sockets

SPECIFICATIONS:

Material:

Insulator: PBT, rated UL94V-0

Insulator Color: Gray

Contacts: Brass

Contact Plating:

Gold flash (30 μ in optional) over nickel underplate on contact area, tin over copper underplate on IDC area

Electrical:

Operating voltage: 250V AC max.

Current rating: 1 Amp max

Contact resistance: 30 m Ω max. initial

Insulation resistance: 5000 M Ω min.

Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.5 lbs per circuit max.

Withdrawal force: 0.094 lbs per circuit min

Mating durability: 500 cycles min.

Recommended cable size: 28 Awg stranded

Temperature Rating:

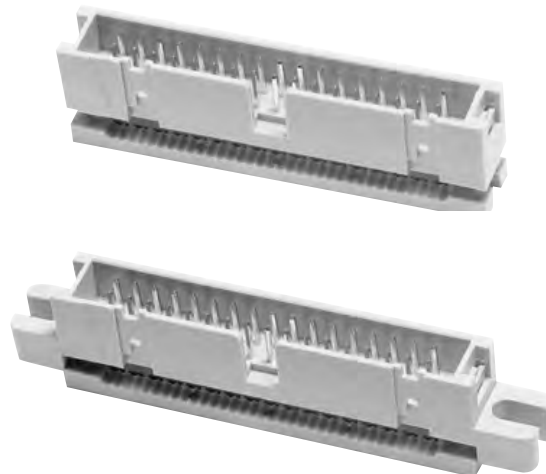
Operating temperature: -40°C to +105°C

PACKAGING:

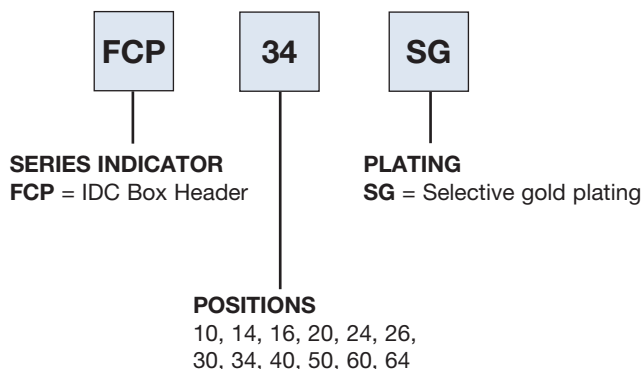
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION



OPTIONS:

Add designator(s) to end of part number

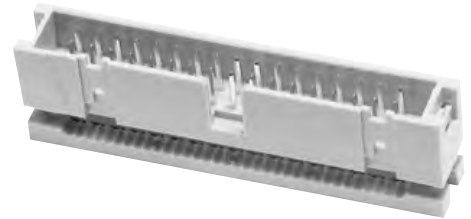
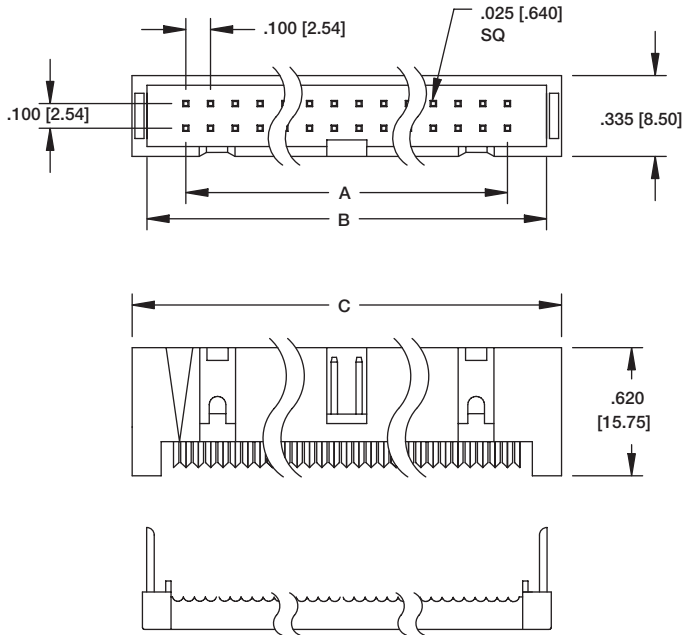
E = Mounting Ears

30 = 30 μ in gold plating in contact area

BK = Black color insulator

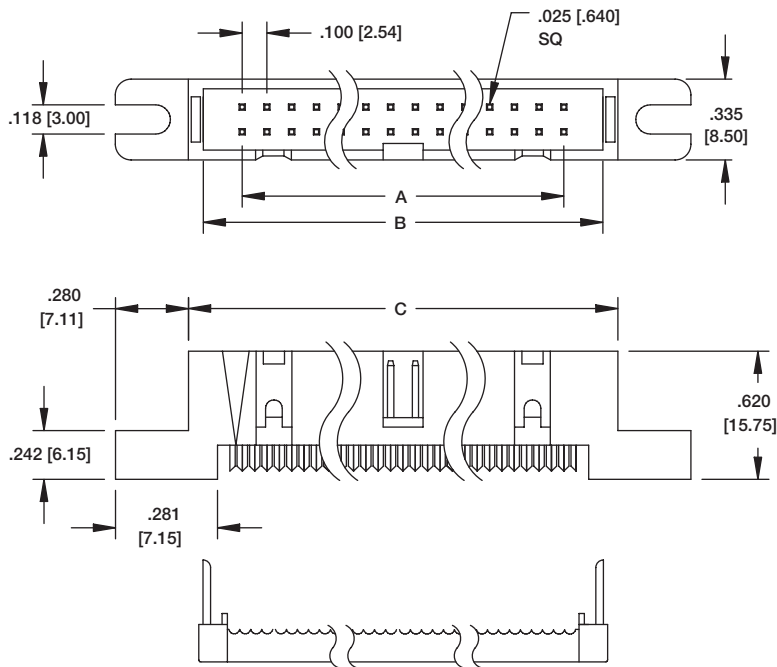


FCP HEADER



FCP-34-SG

FCP HEADER WITH MOUNTING EAR OPTION



FCP-34-SG-E

POS.	DIMENSIONS		
	A	B	C
10	.400 [10.16]	.708 [18.00]	.905 [23.00]
14	.600 [15.24]	.908 [23.08]	1.105 [28.08]
16	.700 [17.78]	1.008 [25.62]	1.205 [30.62]
20	.900 [22.86]	1.208 [30.70]	1.405 [35.70]
24	1.100 [27.94]	1.408 [35.78]	1.605 [40.78]
26	1.200 [30.48]	1.508 [38.32]	1.705 [43.32]
30	1.400 [35.56]	1.708 [43.40]	1.905 [48.40]
34	1.600 [40.64]	1.908 [48.48]	2.105 [53.48]
40	1.900 [48.26]	2.208 [56.10]	2.405 [61.10]
50	2.400 [60.96]	2.708 [68.80]	2.905 [73.80]
60	2.900 [73.66]	3.208 [81.50]	3.405 [86.50]
64	3.100 [78.74]	3.408 [86.58]	3.605 [91.58]

INTRODUCTION:

Adam Tech MHF Series IDC Latch Headers are designed to quickly and easily mass terminate to .050" flat cable. The IDC termination is converted to a Shrouded Box Header with ejector/latches and a polarizing slot that mates with standard IDC sockets. This connector is ideal for splicing and making "T" taps to a cable bus. Adam Tech's sturdy design features solid, selectively gold plated .025"sq. copper alloy posts.

FEATURES:

- Latches for secure attachment
- Latch ejection feature makes socket removal easy
- IDC Cable to Shrouded Box Header
- Mates with standard IDC sockets
- Ideal for splicing and "T" taps to cable bus
- Solid selectively gold plated contacts

MATING CONNECTORS:

Mates with Adam Tech FCS Series .100" (2.54mm) dual row IDC sockets

SPECIFICATIONS:

Material:

Insulator: PBT, rated UL94V-0
Insulator Color: Gray
Contacts: Brass

Contact Plating:

Gold flash (30 μ in optional) over nickel on contact area,
Tin over copper underplate on IDC area

Electrical:

Operating voltage: 250V AC max.
Current rating: 1 Amp max
Contact resistance: 20 m Ω max. initial
Insulation resistance: 5000 M Ω min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Insertion force: 0.5 lbs per circuit max.
Withdrawal force: 0.094 lbs per circuit min
Mating durability: 500 Cycles min.
Recommended cable size: 28 Awg stranded

Temperature Rating:

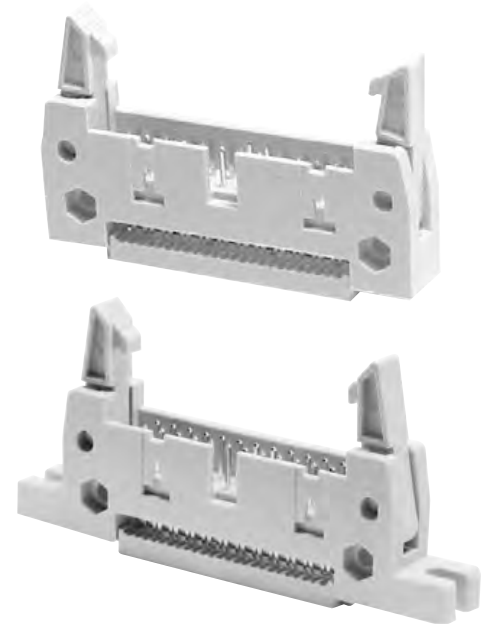
Operating temperature: -40°C to +105°C

PACKAGING:

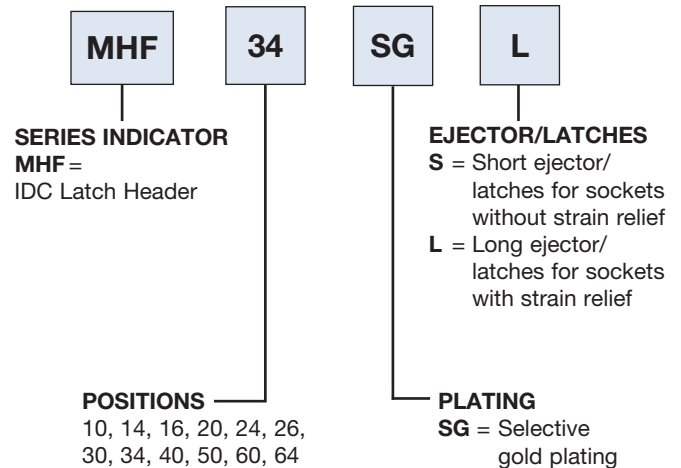
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



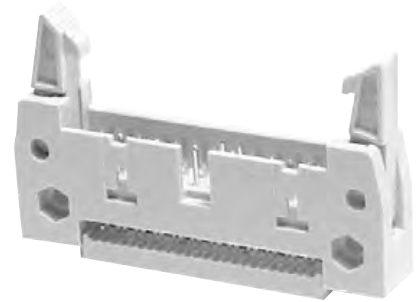
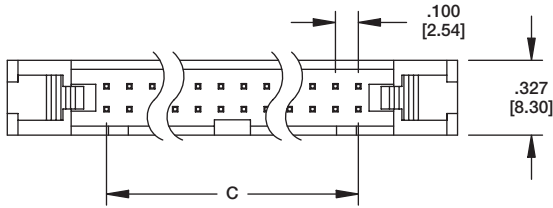
ORDERING INFORMATION



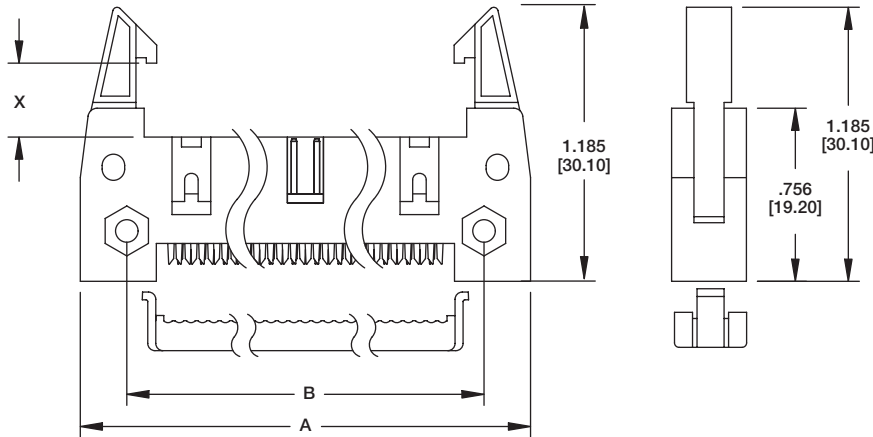
OPTIONS:

Add designator(s) to end of part number
E = Mounting ears

MHF HEADER



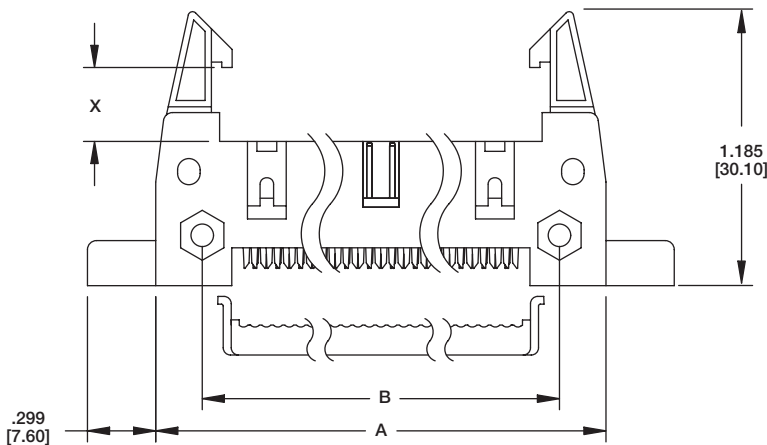
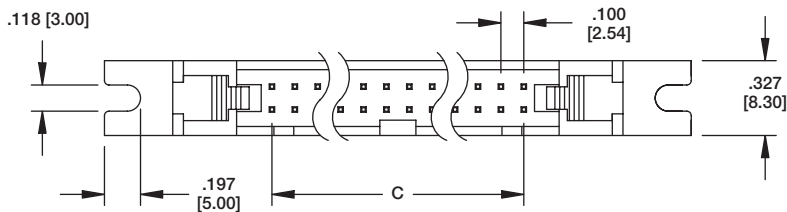
MHF-34-SG-L



Short Latch (No Strain Relief Type)
X= .236 [6.00]

Long Latch (Strain Relief Type)
X= .315 [8.00]

MHF HEADER WITH MOUNTING EAR OPTION



PART NO. & POSITIONS	DIMENSIONS		
	A	B	C
MHF-10	1.266 [32.17]	.860 [21.85]	.400 [10.16]
MHF-14	1.466 [37.25]	1.060 [26.93]	.600 [15.24]
MHF-16	1.566 [39.79]	1.160 [29.47]	.700 [17.78]
MHF-20	1.766 [44.87]	1.360 [34.55]	.900 [22.86]
MHF-24	1.966 [49.95]	1.560 [39.63]	1.100 [27.94]
MHF-26	2.066 [52.49]	1.660 [42.17]	1.200 [30.48]
MHF-30	2.266 [57.57]	1.860 [47.25]	1.400 [35.56]
MHF-34	2.466 [62.65]	2.060 [52.33]	1.600 [40.64]
MHF-40	2.766 [70.27]	2.360 [59.95]	1.900 [48.26]
MHF-50	3.266 [82.97]	2.860 [72.65]	2.400 [60.96]
MHF-60	3.766 [95.67]	3.360 [85.34]	2.900 [73.66]
MHF-64	3.966 [100.75]	3.560 [90.43]	3.100 [78.74]

INTRODUCTION:

Adam Tech's MTD Series .100" & .156" Housings with IDC contacts are designed to quickly and easily mass terminate discrete wires or pre-notched flat cable. Our stamped contacts are designed to feature a precision, gas tight IDC connection at the wire end and a high pressure, smooth wiping action connection on the mating connector end. Both are available with optional cover in feed through or closed end styles.

FEATURES:

Easily mass terminates discrete wire and pre-notched flat cable
Housings have pre-inserted IDC contacts
High performance Gas tight IDC connection
Optional Feed through or Closed end cover

SPECIFICATIONS:

Material:

Insulator: Nylon 66, rated UL94V-2
Insulator Color: Natural
Contacts: Phosphor bronze and Brass

Contact Plating:

Tin over copper underplate overall

Electrical:

Operation voltage: 250V AC max.
Current rating:
.100" centers: 4. Amp max.
.156" centers: 6 Amp max.
Insulation resistance: 1000 MΩ min.
Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Mating force:
.100" & .156" Center: 1.3 lbs max
Unmating force:
.100" Center: 0.5 lbs min
.156" Center: 1.3 lbs min
.100" Centers: Wire size: 28 Awg to 22 Awg
.156" Centers: Wire size: 26 Awg to 18 Awg

Temperature Rating:

Operating temperature: -40°C to +105°C

PACKAGING:

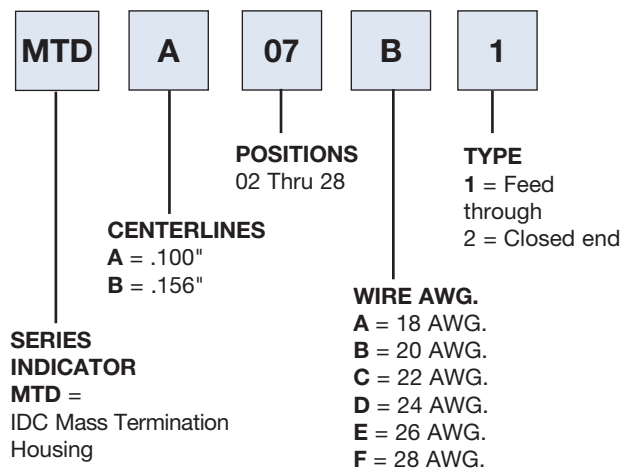
Anti-ESD plastic bags

APPROVALS AND CERTIFICATIONS:

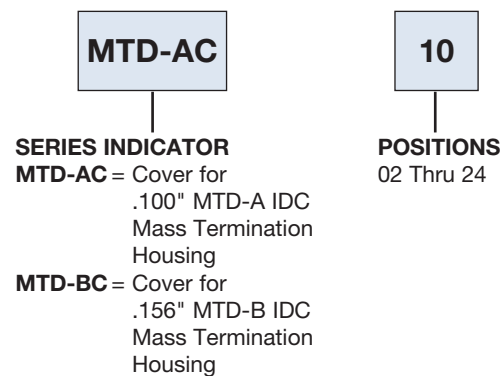
UL Recognized File no. E224053



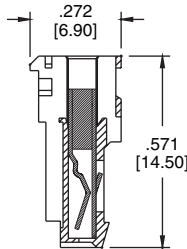
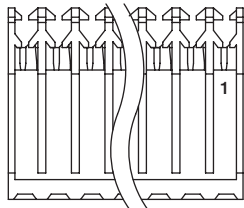
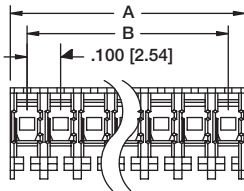
ORDERING INFORMATION CONNECTOR



ORDERING INFORMATION COVER



MTD-A .100" CENTERLINE

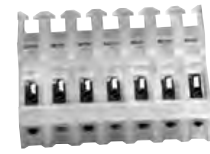


A = .100 [2.54] X No of Positions
B = .100 [2.54] X No of Spaces

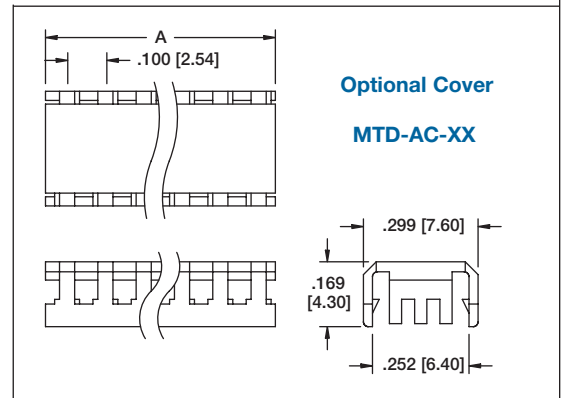
Available wire sizes: 22, 24, 26 & 28 AWG.



MTD-A-04-D-1



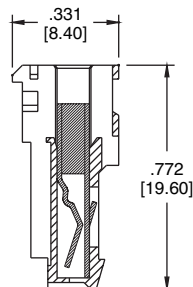
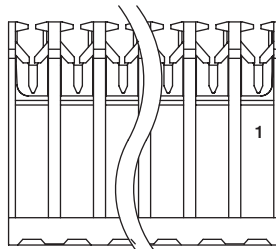
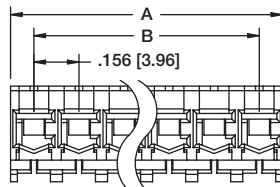
MTD-A-07-D-1



Optional Cover

MTD-AC-XX

MTD-B .156" CENTERLINE

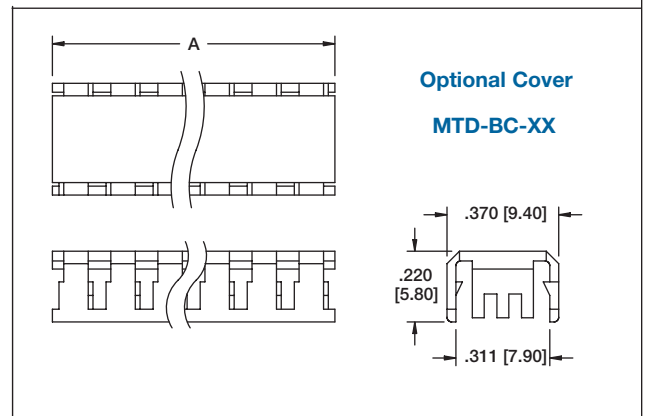


A = .156 [3.96] X No of Positions
B = .156 [3.96] X No of Spaces

Available wire sizes: 18, 20, 22, & 24 AWG.



MTD-B-07-B-1



Optional Cover

MTD-BC-XX

INTRODUCTION:

Adam Tech's Flat Cable DIP & Transition plugs are a one piece connector system that quickly and easily mass terminates flat cable then mounts directly to the PCB or PCB socket. These connectors are ideal for interconnecting PCB's in a permanent flat cable transition or satisfying disconnect applications. Our low profile design allows an increased board to board stacking density.

FEATURES:

Available in 8 – 64 positions
Eliminates need for two piece header & Socket set
Fast easy mass termination without stripping cable
Heavy duty Tin plated contacts
Low Profile, high density board to board stacking
Plugs into IC Socket or solders directly to PCB

SPECIFICATIONS:

Material:

Insulator: PBT, glass reinforced, rated UL94V-0
Optional Hi-Temp insulator: Nylon 6T, rated UL94V-0
Insulator Color: Black (Gray optional)

Contacts: Brass

Contact Plating:

G = Gold over nickel underplate on contact area, Tin over copper underplate on IDC area.

T = Tin over copper underplate overall

Electrical:

Operating voltage: 250V AC max.

Current rating: 3 Amp max

Contact resistance: 20 mΩ max. initial

Insulation resistance: 5000 MΩ min.

Dielectric withstanding voltage: 1000V AC for 1 minute

Mechanical:

Recommended cable size: 28 Awg stranded

Temperature Rating:

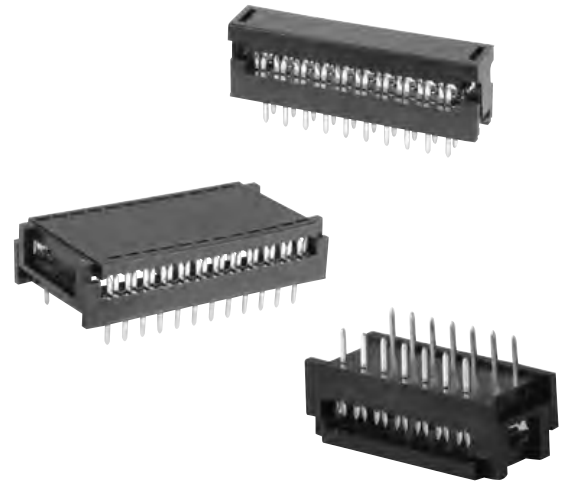
Operating temperature: -40°C to +105°C

PACKAGING:

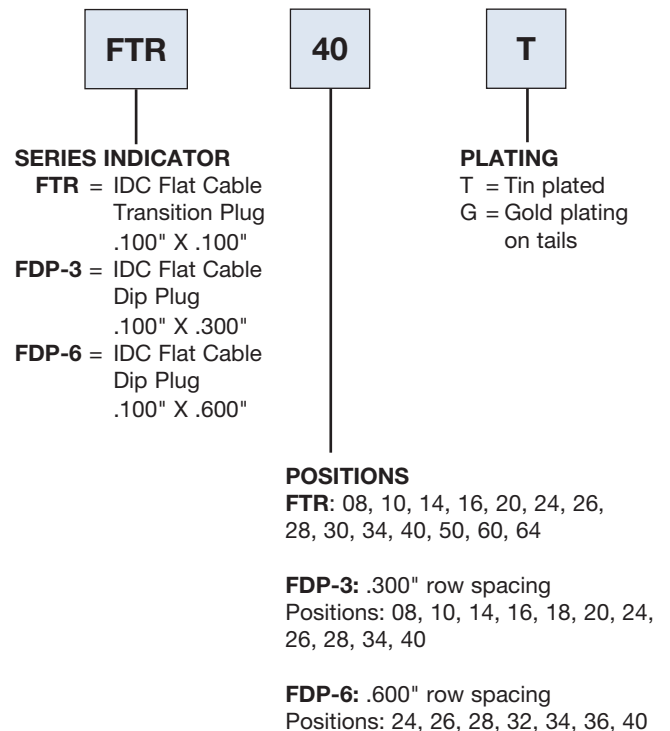
Anti-ESD plastic trays

SAFETY AGENCY APPROVALS:

UL Recognized File no. E224053



ORDERING INFORMATION



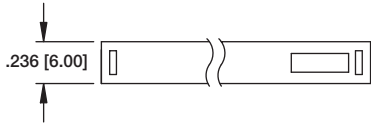
OPTIONS:

Add designator(s) to end of part number
 30 = 30 μin gold plating in contact area
 GY = Gray color insulator
 RT = Board retention



FTR SERIES

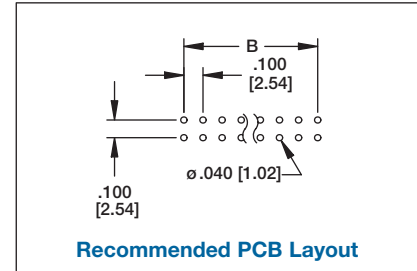
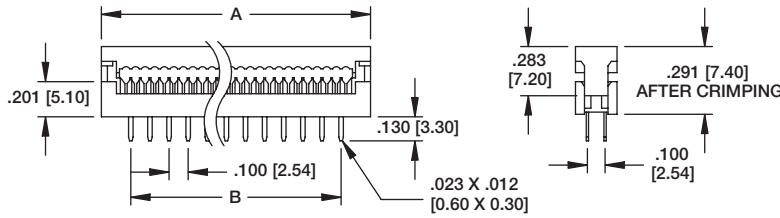
.100" X .100" (8P-64P)



A = .100 [2.54] x No. of Positions per row + .310 [7.88]
 B = .100 [2.54] x No. of Spaces per row



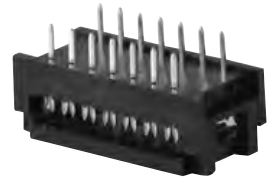
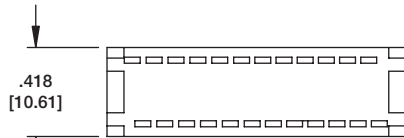
FTR-14-T



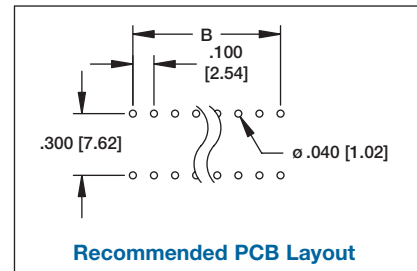
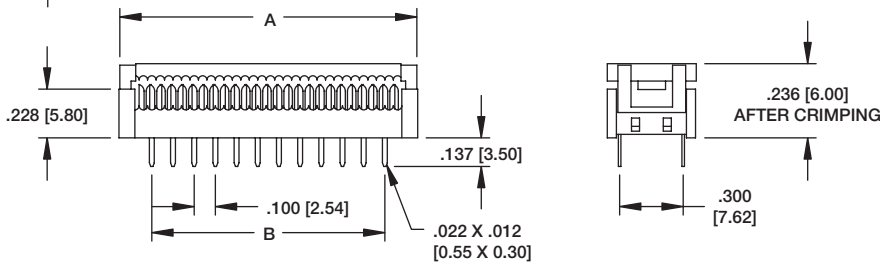
Recommended PCB Layout

FDP SERIES

.100" X .300" (8P-20P)



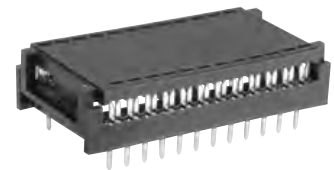
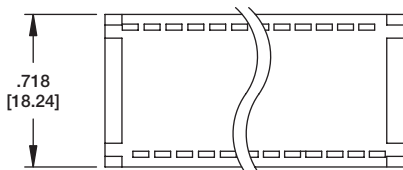
FDP-14-T



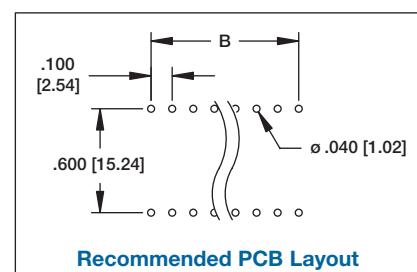
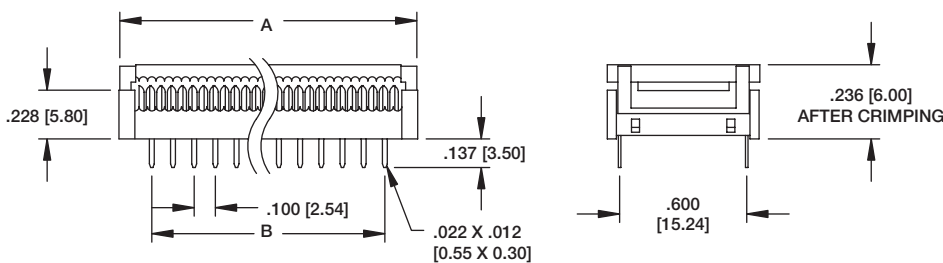
Recommended PCB Layout

FDP SERIES

.100" X .600" (24P-40P)



FDP-24-T



Recommended PCB Layout

INTRODUCTION:

Adam Tech DMH & DMF Series Power Connectors consist of a receptacle and plug set in a variety of single and multiple row configurations with 165" centerlines. They are manufactured of Nylon 6/6 with a flammability rating of UL94V-2 or UL94V-0. This series is designed as a mated set with a PCB mounted header and a wire mounted socket which securely latches to header when mated. Our specially designed bodies provide polarization to eliminate mismatching and our latching system resists heavy vibration. PCB mounted headers have molded pegs which align and brace the PCB tails for trouble free assembly and use.

FEATURES:

- High current rating
- Polarized and Positive locking
- Vibration resistant
- Compatible with Wide Range of wires
- Industry standard compatible

SPECIFICATIONS:

Material:

- Insulator: Nylon 66, rated UL94V-2
- Insulator Color: Natural or Black
- Contacts: Brass, tin plated

Electrical:

- Operating voltage: 300V AC / DC max.
- Current Rating: 5 Amps max
- Insulation resistance: 1000 MΩ min.
- Dielectric withstanding voltage: 1500V AC for 1 minute

Temperature Rating:

- Operating temperature: -25°C to +85°C

PACKAGING:

- Anti-ESD plastic bags

SAFETY AGENCY APPROVALS:

- UL Recognized File no. E224053



**ORDERING INFORMATION
FEMALE WIRE HOUSING**



- SERIES INDICATOR**
DMH = 4.2mm Pitch
DMW = 4.14mm Pitch
DMU = 3.0mm Pitch
DMT = 3.0mm Pitch
DML = 3.0mm Pitch
- POSITIONS**
02 THRU 24

**ORDERING INFORMATION
MALE PCB HOUSING**



- SERIES INDICATOR**
DMF = PCB Male
- POSITIONS**
02 THRU 24
(Evenly numbered)
- FLANGES (RIGHT ANGLE ONLY)**
BLANK = Straight Type
F = With Flange (Right Angle Only)
- MOUNTING**
S = Straight PCB Mount
R = Right Angle PCB Mount
W = Crimp Housing

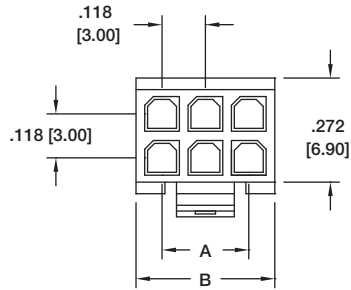
- OPTIONS:**
Add designator(s) to end of part number
P = PCB Peg



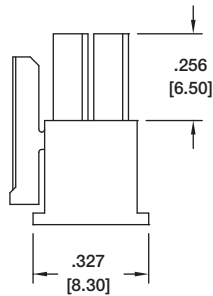
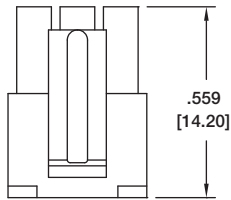
Contact factory for detail



DMT CRIMP HOUSING



DMT-14



DIMENSIONS

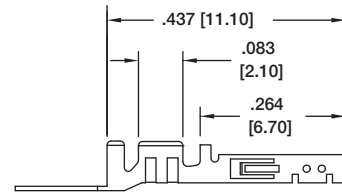
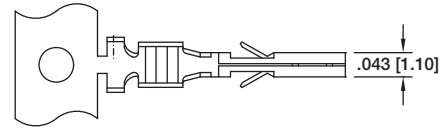
A = .118 [3.00] X No. of Positions /2 - 1

B = .118 [3.00] X No. of Positions /2 + .151 [3.85]

DMT CRIMP CONTACT

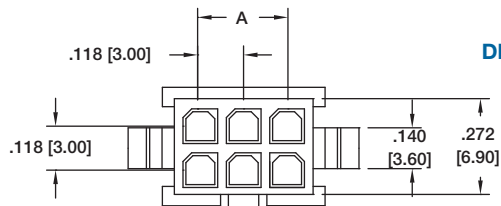


DMT-A-C-F-T-R

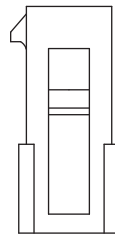
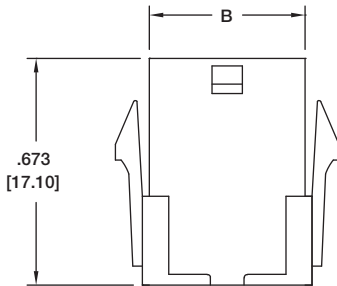


PART #	WIRE AWG
DMT-A-C-F-T-R	26 - 30
DMT-B-C-F-T-R	20 - 24

DMU CRIMP HOUSING



DMU-12

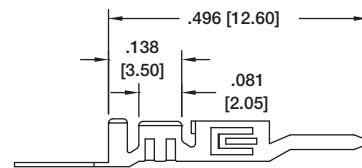
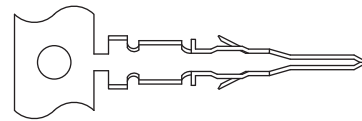


DIMENSIONS

A = .118 [3.00] X No. of Positions /2 - 1

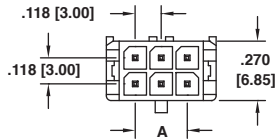
B = .118 [3.00] X No. of Positions /2 + .151 [3.85]

DMU CRIMP CONTACT

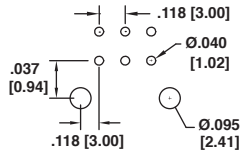


PART #	WIRE AWG
DMU-A-C-M-T-R	26 - 30
DMU-B-C-M-T-R	20 - 24

DML-XX-A-V-T-A VERTICAL THRU HOLE MOUNT



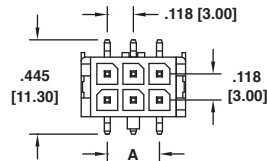
DML-10-A-V-T-A



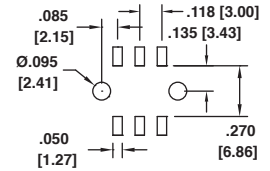
Recommended PCB Layout

Replace (XX) with no. of positions
 A = .118 [3.00] X No. of Positions / 2 - 1
 B = .118 [3.00] X No. of Positions / 2 + .143 [3.65]

DML-XX-A-V-T-SMT-BL VERTICAL SMT W/BOARDLOCKS



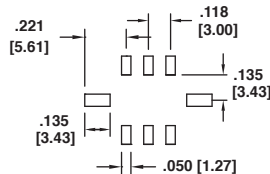
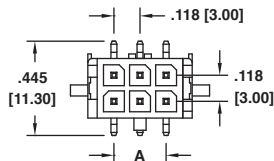
DML-10-A-V-T-SMT-BL



Recommended PCB Layout

Replace (XX) with no. of positions
 A = .118 [3.00] X No. of Positions / 2 - 1
 B = .118 [3.00] X No. of Positions / 2 + .145 [3.70]

DML-XX-A-V-T-TSMT VERTICAL TRUE SMT

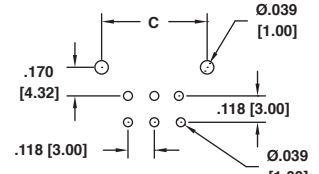
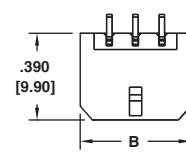


Recommended PCB Layout

Replace (XX) with no. of positions
 A = .118 [3.00] X No. of Positions / 2 - 1
 B = .118 [3.00] X No. of Positions / 2 + .145 [3.70]

DML-12-A-V-T-TSMT

DML-XX-A-H-T-BL RIGHT ANGLE THRU HOLE



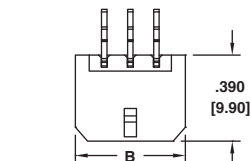
Recommended PCB Layout

Replace (XX) with no. of positions
 A = .118 [3.00] X No. of Positions / 2 - 1
 B = .118 [3.00] X No. of Positions / 2 + .145 [3.70]

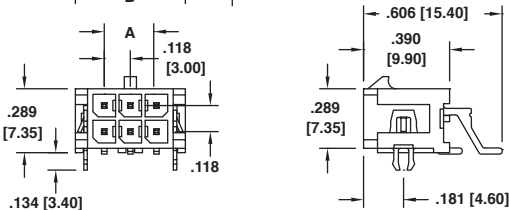


DML-12-A-H-T-BL

DML-XX-A-H-T-SMT-BL RIGHT ANGLE SMT W/BOARDLOCKS

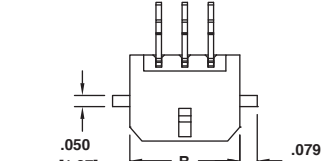


DML-10-A-H-T-SMT-BL

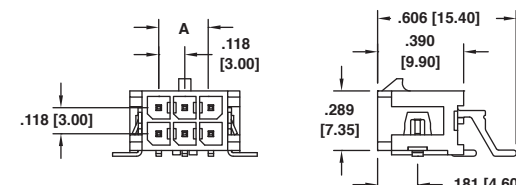


Replace (XX) with no. of positions
 A = .118 [3.00] X No. of Positions / 2 - 1
 B = .118 [3.00] X No. of Positions / 2 + .145 [3.70]

DML-XX-A-H-T-TSMT RIGHT ANGLE TRUE SMT

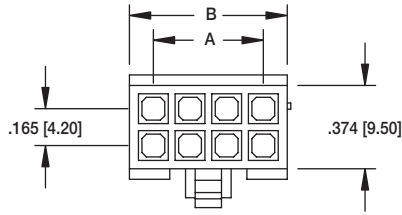


DML-08-A-H-T-TSMT

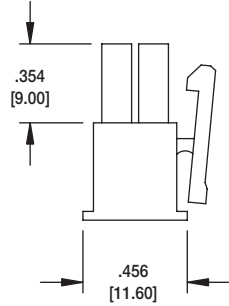
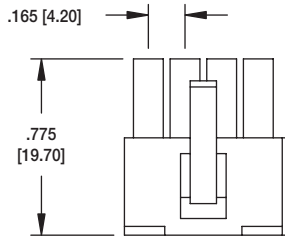


Replace (XX) with no. of positions
 A = .118 [3.00] X No. of Positions / 2 - 1
 B = .118 [3.00] X No. of Positions / 2 + .145 [3.70]

DMH CRIMP HOUSING



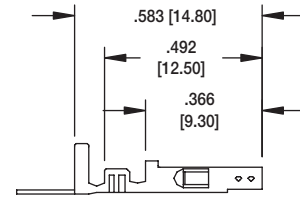
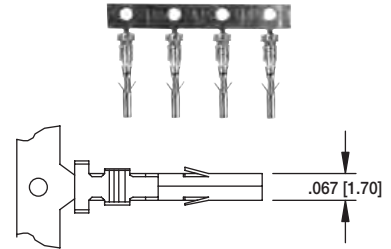
DMH-12



DIMENSIONS:

A = .165 [4.20] X No. of Position / 2 - 1

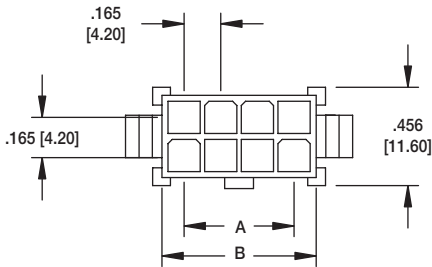
B = .165 [4.20] X No. of Positions / 2 + .055 [1.40]



DMH CRIMP CONTACT

PART #	WIRE AWG
DMH-A-C-F-R	22 ~ 24
DMH-B-C-F-R	18 ~ 22
DMH-C-C-F-R	16 ~ 18

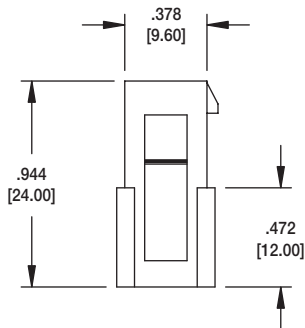
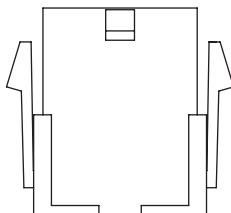
DMF CRIMP HOUSING



DMF-06-W



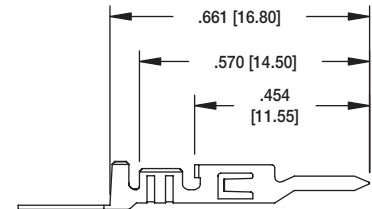
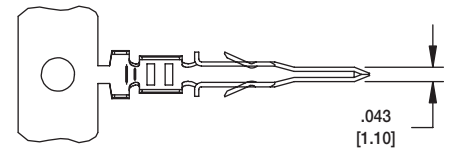
DMF-12-W



DIMENSIONS:

A = .165 [4.20] X No. of Position / 2 - 1

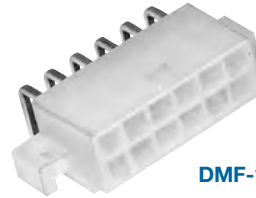
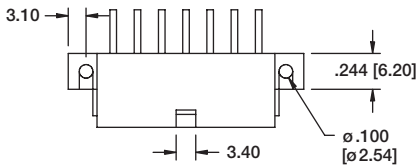
B = .165 [4.20] X No. of Positions / 2 + .055 [1.40]



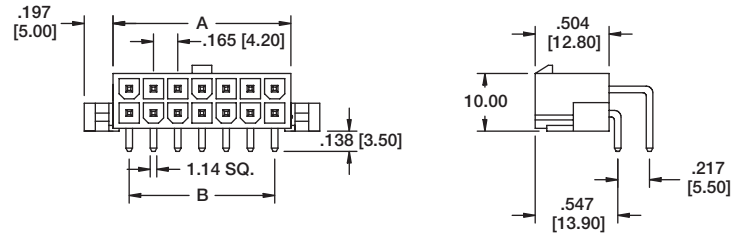
DMF CRIMP CONTACT

PART #	WIRE AWG
DMF-A-C-M-R	22 ~ 24
DMF-B-C-M-R	18 ~ 22

**DMF
RIGHT ANGLE
WITH FLANGE**

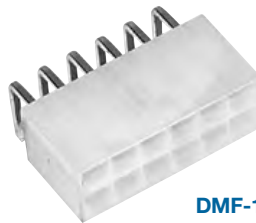
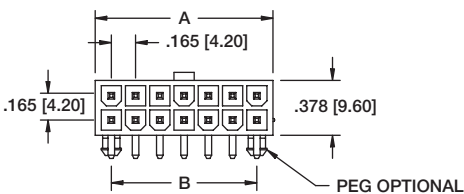
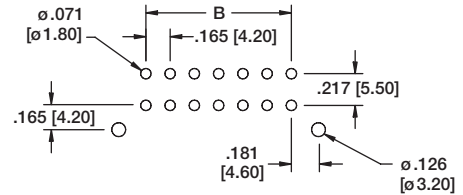


DMF-12-R-F

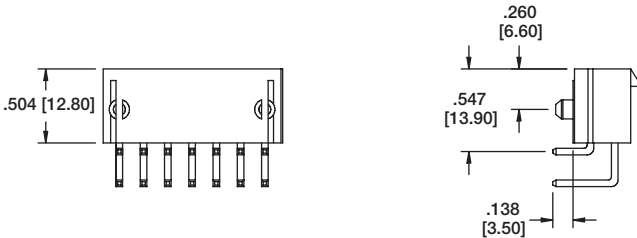


A = .165 [4.20] x No. of Positions + .213 [5.40]
B = .165 [4.20] x No. of Spaces

Recommended PCB Layout

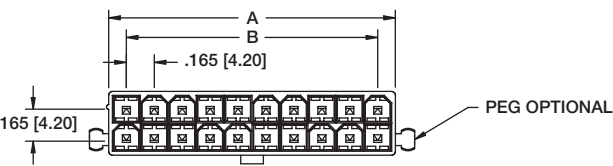
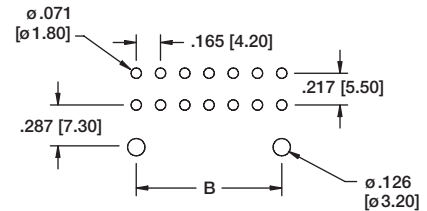


DMF-12-R-N

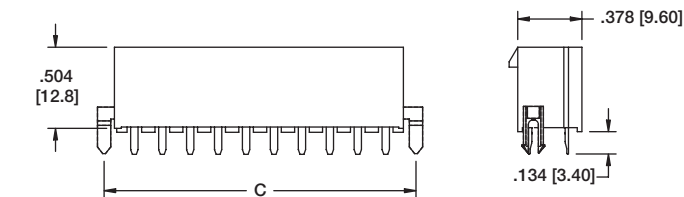


A = .165 [4.20] x No. of Positions + .213 [5.40]
B = .165 [4.20] x No. of Spaces

Recommended PCB Layout

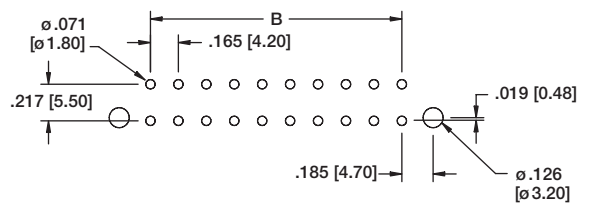


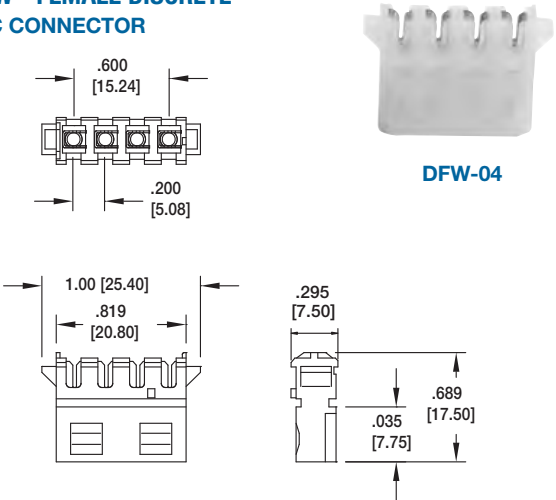
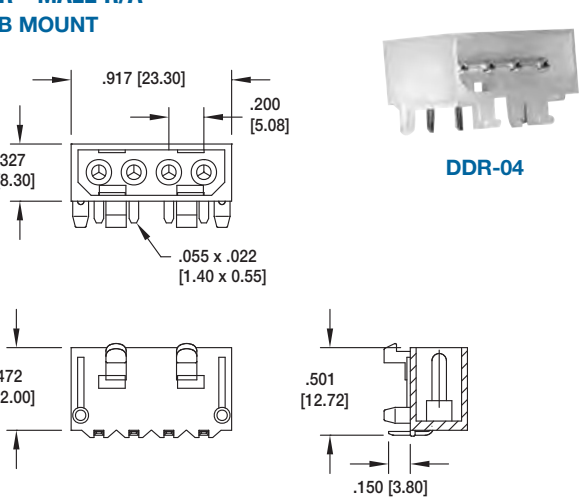
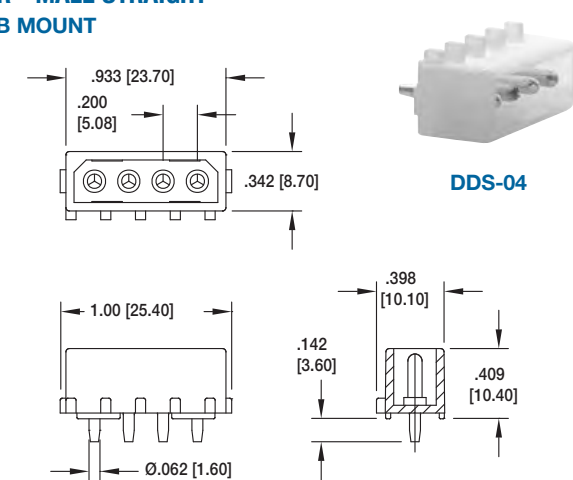
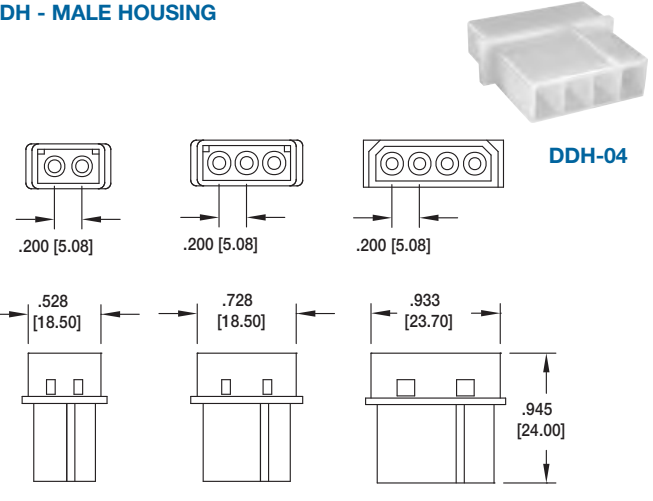
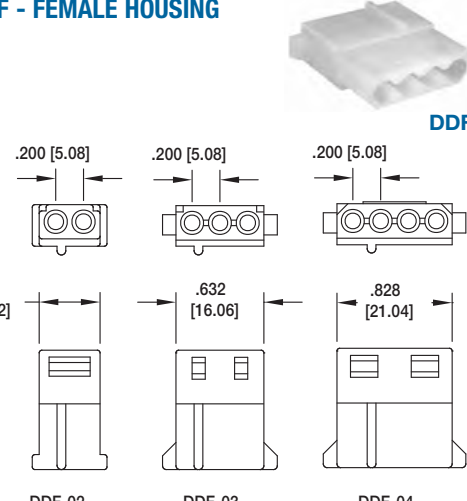
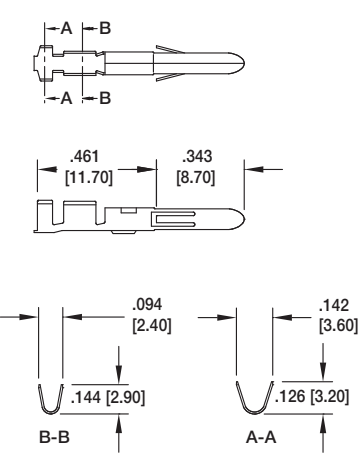
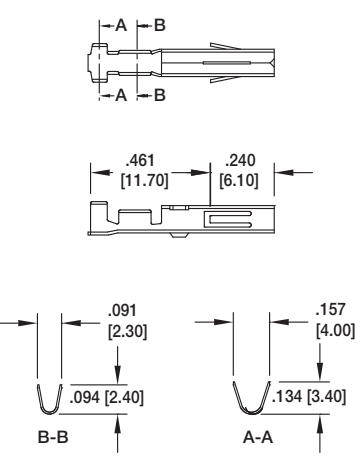
DMF-12-S-P




A = .165 [4.20] x No. of Positions + .213 [5.40]
B = .165 [4.20] x No. of Spaces

Recommended PCB Layout

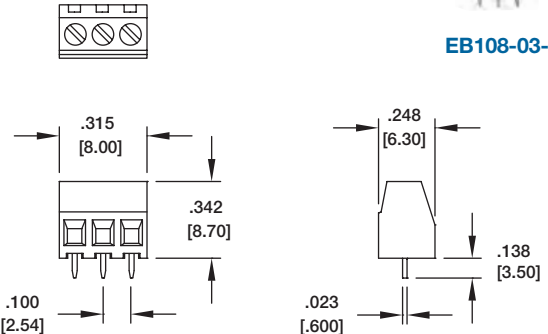


<p>DFW - FEMALE DISCRETE IDC CONNECTOR</p>  <p>DFW-04</p> <p>Dimensions: .600 [15.24], .200 [5.08], 1.00 [25.40], .819 [20.80], .295 [7.50], .689 [17.50], .035 [7.75]</p>	<p>DDR - MALE R/A PCB MOUNT</p>  <p>DDR-04</p> <p>Dimensions: .917 [23.30], .200 [5.08], .327 [8.30], .055 x .022 [1.40 x 0.55], .472 [12.00], .501 [12.72], .150 [3.80]</p>	
<p>DDR - MALE STRAIGHT PCB MOUNT</p>  <p>DDS-04</p> <p>Dimensions: .933 [23.70], .200 [5.08], .342 [8.70], 1.00 [25.40], .142 [3.60], .398 [10.10], .409 [10.40], Ø.062 [1.60]</p>	<p>DDH - MALE HOUSING</p>  <p>DDH-04</p> <p>Dimensions: .200 [5.08], .200 [5.08], .200 [5.08], .528 [18.50], .728 [18.50], .933 [23.70], .945 [24.00]</p> <p>DDH-02, DDH-03, DDH-04</p>	
<p>DDF - FEMALE HOUSING</p>  <p>DDF-04</p> <p>Dimensions: .200 [5.08], .200 [5.08], .200 [5.08], .441 [11.12], .632 [16.06], .828 [21.04]</p> <p>DDF-02, DDF-03, DDF-04</p>	<p>DMC - MALE CRIMP CONTACT</p>  <p>Dimensions: .461 [11.70], .343 [8.70], .094 [2.40], .142 [3.60], .144 [2.90], .126 [3.20]</p> <p>B-B, A-A</p>	<p>DFC - FEMALE CRIMP CONTACT</p>  <p>Dimensions: .461 [11.70], .240 [6.10], .091 [2.30], .157 [4.00], .094 [2.40], .134 [3.40]</p> <p>B-B, A-A</p>

EB108




EB108-03-L



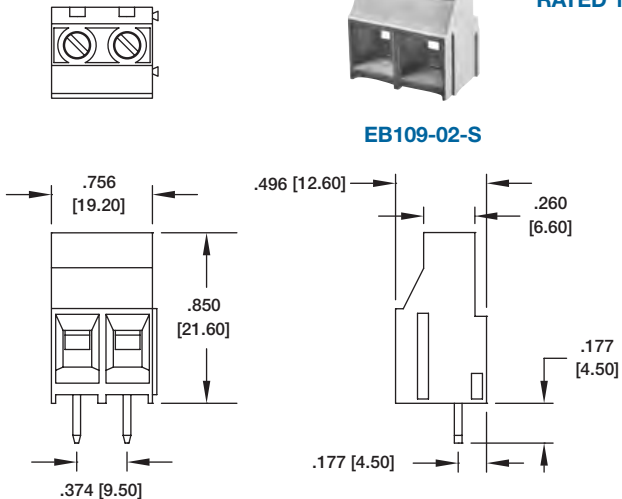
Technical drawings showing dimensions for EB108-03-L:

- Top view: .315 [8.00] (pole spacing), .100 [2.54] (pole width)
- Side view: .248 [6.30] (height), .138 [3.50] (wire height), .023 [.600] (wire diameter)
- Internal view: .342 [8.70] (internal height)

EB109
RATED 15A




EB109-02-S



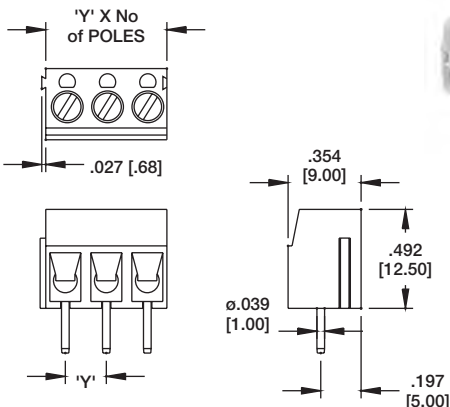
Technical drawings showing dimensions for EB109-02-S:

- Top view: .756 [19.20] (pole spacing), .374 [9.50] (pole width)
- Side view: .496 [12.60] (height), .260 [6.60] (wire height), .177 [4.50] (wire diameter)
- Internal view: .850 [21.60] (internal height)

EBA



EBA-03-C




Technical drawings showing dimensions for EBA-03-C:

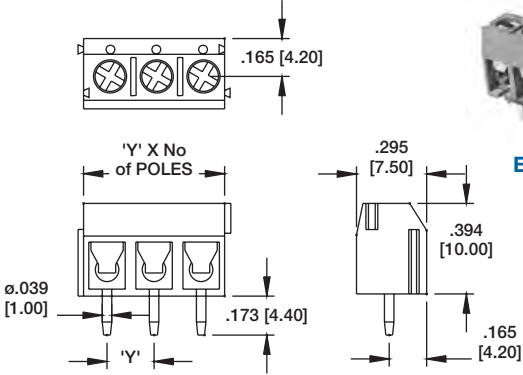
- Top view: 'Y' X No of POLES (pole spacing), .027 [.68] (pole width)
- Side view: .354 [9.00] (height), .492 [12.50] (wire height), .197 [5.00] (wire diameter), $\phi .039$ [1.00] (wire diameter)
- Internal view: 'Y' (pole width)

Available centerline spacings:
C = .197 [5.00] H = .394 [10.00] K = .591 [15.00]

EBB



EBB-03-D




Technical drawings showing dimensions for EBB-03-D:

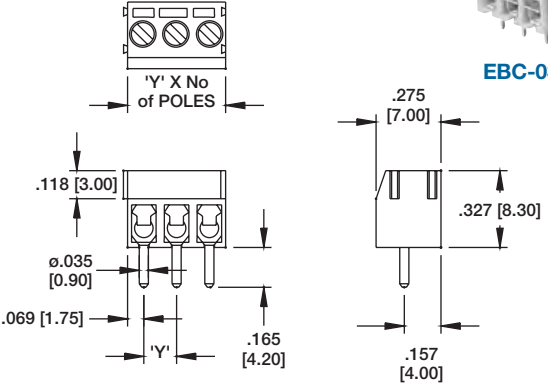
- Top view: .165 [4.20] (pole spacing), 'Y' X No of POLES (pole spacing), $\phi .039$ [1.00] (wire diameter)
- Side view: .295 [7.50] (height), .394 [10.00] (wire height), .173 [4.40] (wire diameter), .165 [4.20] (wire diameter)
- Internal view: .173 [4.40] (wire diameter)

Available centerline spacings:
C = .197 [5.00] D = .200 [5.08] H = .394 [10.00] J = .400 [10.16]

EBC



EBC-03-A




Technical drawings showing dimensions for EBC-03-A:

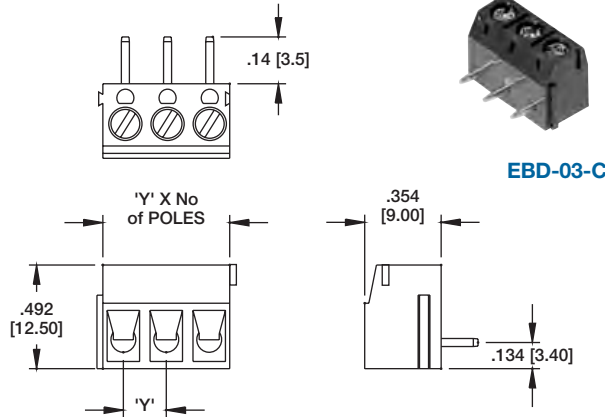
- Top view: 'Y' X No of POLES (pole spacing), .118 [3.00] (pole width)
- Side view: .275 [7.00] (height), .327 [8.30] (wire height), .157 [4.00] (wire diameter), .165 [4.20] (wire diameter), $\phi .035$ [0.90] (wire diameter)
- Internal view: .069 [1.75] (pole width), 'Y' (pole width)

Available centerline spacings:
A = .138 [3.50] E = .276 [7.00]

EBD



EBD-03-C

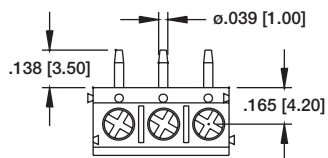


Technical drawings showing dimensions for EBD-03-C:

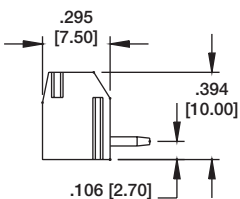
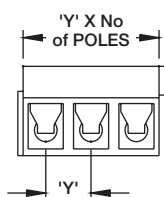
- Top view: .14 [3.5] (pole spacing), 'Y' X No of POLES (pole spacing)
- Side view: .354 [9.00] (height), .492 [12.50] (wire height), .134 [3.40] (wire diameter)
- Internal view: .134 [3.40] (wire diameter), 'Y' (pole width)

Available centerline spacings:
C = .197 [5.00] H = .394 [10.00]

EBE



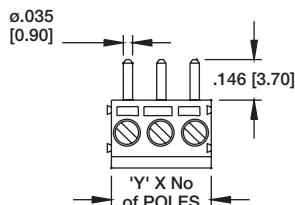
EBE-03-C



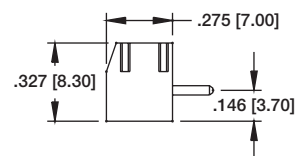
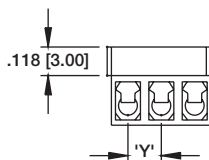
REPLACE 'Y' WITH PITCH

C = .197 [5.00] D = .200 [5.08] H = .394 [10.00] J = .400 [10.16]

EBF



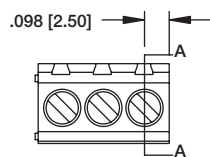
EBF-03-A



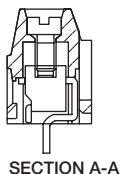
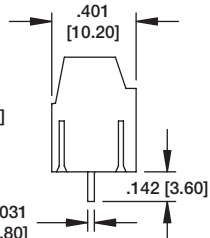
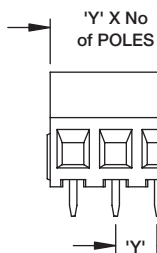
REPLACE 'Y' WITH PITCH

A = .138 [3.50] E = .276 [7.00]

EBV



EBV-03-C

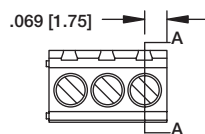


SECTION A-A

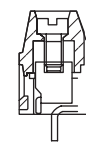
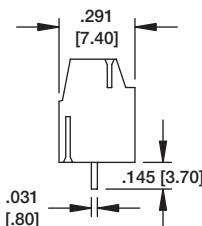
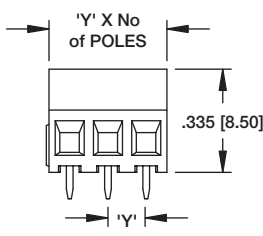
REPLACE 'Y' WITH PITCH

C = .197 [5.00] D = .200 [5.08] H = .394 [10.00] J = .400 [10.16]

EBW



EBW-03-C

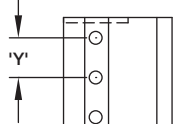
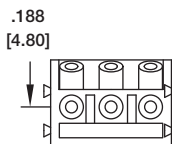
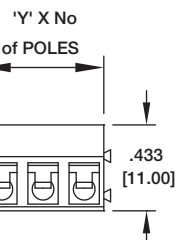
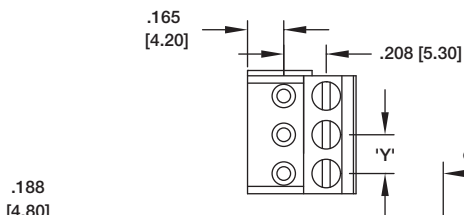


SECTION A-A

REPLACE 'Y' WITH PITCH

A = .138 [3.50] E = .276 [7.00]

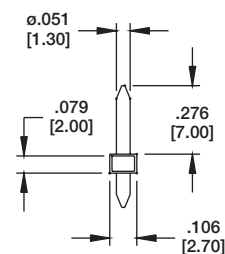
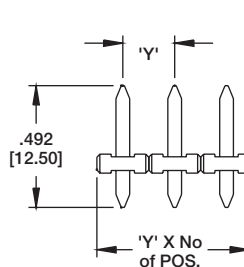
EBJ



EBJ-03-C

REPLACE 'Y' WITH PITCH
C = .197 [5.00]
H = .394 [10.00]

EBT



EBT-03-C

REPLACE 'Y' WITH PITCH
C = .197 [5.00] H = .394 [10.00]

PLUGGABLE BLOCK WITH STRAIGHT OR RIGHT ANGLE HEADER **EBH**

EBH-03-C

PLUGGABLE BLOCK WITH STRAIGHT OR RIGHT ANGLE HEADER **EBK**

EBK-07-B

STRAIGHT HEADER **EBP**

EBP-04-C

STRAIGHT HEADER **EBR**

EBR-07-B

RIGHT ANGLE HEADER **EBQ**

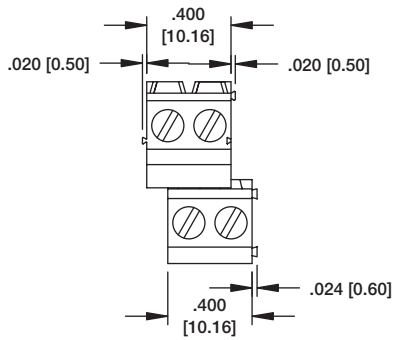
EBQ-04-C

REPLACE 'Y' WITH PITCH
 C = .197 [5.00] D = .200 [5.08]
 H = .394 [10.00] J = .400 [10.16]

RIGHT ANGLE HEADER **EBS**

EBS-07-B

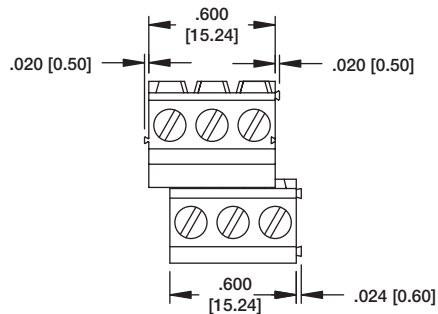
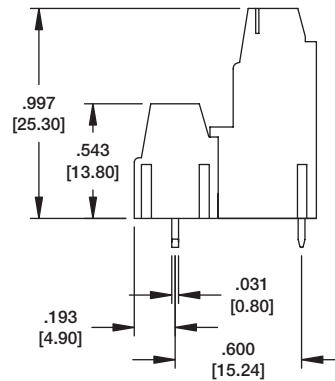
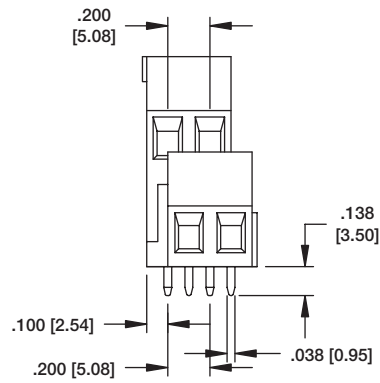
REPLACE 'Y' WITH PITCH
 A = .138 [3.50] B = .150 [3.81]
 E = .276 [7.00] G = .300 [7.62]



EBV2-02-D
2 POSITION STACKED BLOCK
SLIDE TOGETHER SIDE STACKABLE



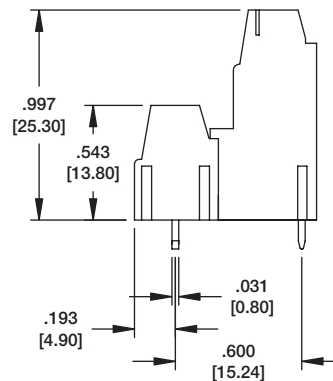
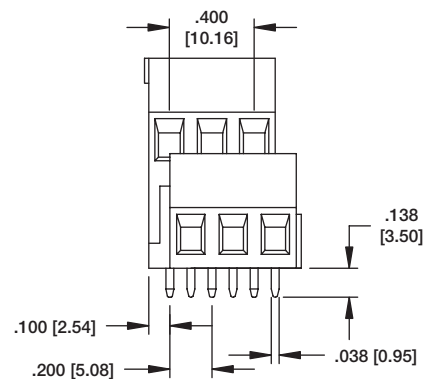
EBV2-02-D



EBV2-03-D
3 POSITION STACKED BLOCK
SLIDE TOGETHER SIDE STACKABLE



EBV2-03-D



INTRODUCTION:

Adam Tech TB & TD series Terminal Blocks are a full range of Blocks which are most commonly used to terminate wires and eliminate splicing. They are offered in five different centerlines with open or closed back option. Each is available for bulkhead or PCB mounting with choice of Straight or Right Angle PCB terminals, Cliptite and or Turret Terminals. Our TB series is manufactured from flexible thermoplastic and resists cracking and breaking. Our TD series is manufactured from Hi-Temp Phenolic and has current carrying capability up to 30 Amps.

FEATURES:

Wide range of sizes and profiles
Choice of open or closed back design
Choice of multiple terminations
Flexible Break resistant Thermoplastic.

SPECIFICATIONS:

Material:

Insulator:
TB Series: PBT, rated UL94V-0
TD Series: Phenolic, glass reinforced, rated UL94V-0
Insulator Color: Black
Contacts: Brass, tin plated
Screws: Steel, nickel plated
Hardware: Brass, tin plated

Electrical:

Operation voltage: 300V AC max.
Current rating:
TBA / TBB / TDA series: 10 Amps max.
TBC / TBD / TBE / TBF / TBG / TBH series: 15 Amps max.
TDB series: 20 Amps max
TDC series: 30 Amps max
TDD series: 35 Amps max
TDG series: 6 Amps max
TDH series: 15 Amps max
TDJ series: 50 Amps max
Contact resistance: 20MΩ max
Insulation resistance: 500 MΩ min.
Dielectric withstanding voltage: 2000V AC for 1 minute

Mechanical:

Wire Range:
TBA / TBB Series: 22 – 16 Awg
TBC / TBE Series: 22 – 14 Awg
TBD Series: 22 – 14 Awg
TBF / TBG Series: 22 – 14 Awg
TDA / TDB / TDC Series: 18 - 12 Awg
TDD/TDH Series: 22 – 10 Awg
TDG Series: 22 – 12 Awg
TDJ Series: 16 – 8 Awg

Temperature Rating:

Operating temperature: -40°C to +105°C

PACKAGING:

Anti-ESD plastic bags

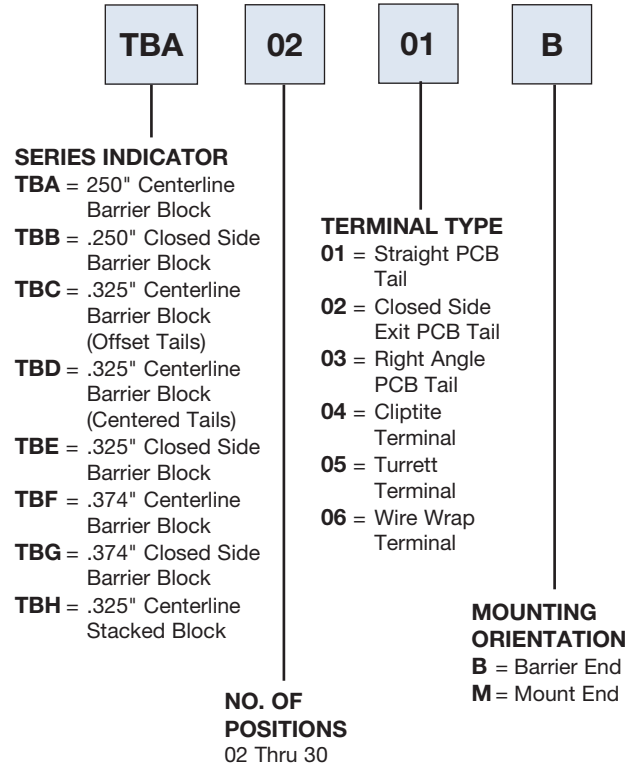
SAFETY AGENCY APPROVALS:

UL Recognized & CSA Certified,
File no. E333935



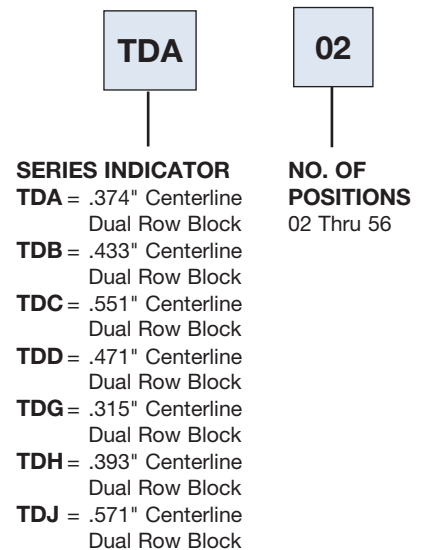
ORDERING INFORMATION

TB SERIES TERMINAL BLOCKS

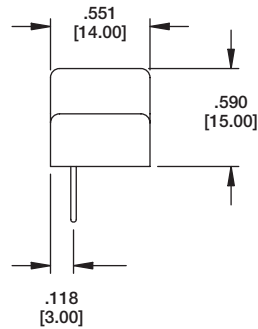
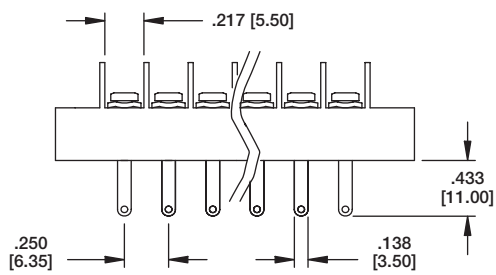
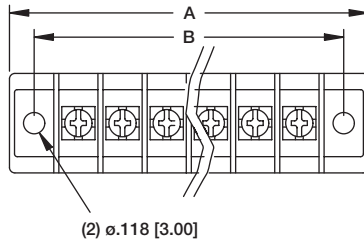


ORDERING INFORMATION

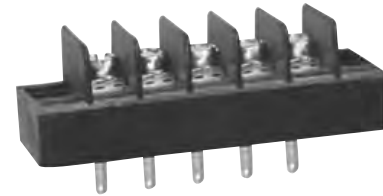
TD SERIES DUAL ROW BLOCKS



TBA



A = $.250$ [6.35] x No. of Poles + $.545$ [13.85]
 B = $.250$ [6.35] x (No. of Poles + $.250$ [6.35])

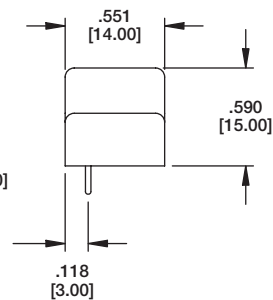
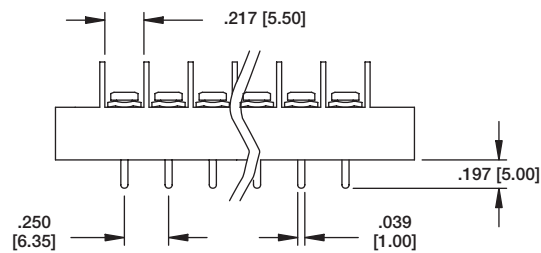
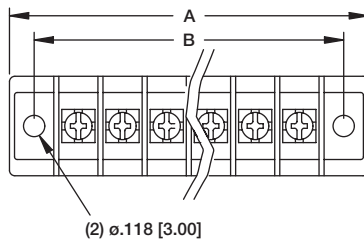


TBA-05-04-M

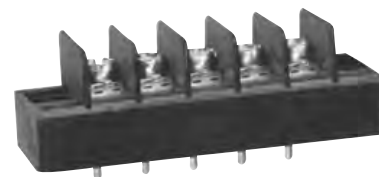


TBA-05-04-B

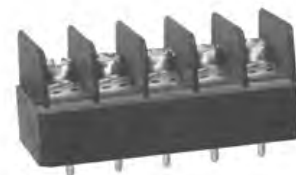
TBA



A = $.250$ [6.35] x No. of Poles + $.545$ [13.85]
 B = $.250$ [6.35] x (No. of Poles + $.250$ [6.35])

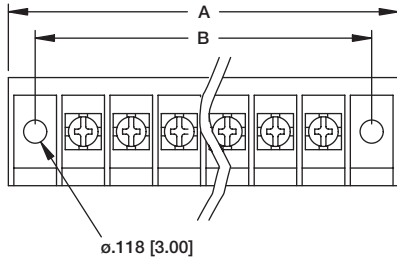


TBA-05-01-M



TBA-05-01-B

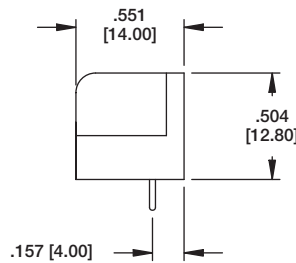
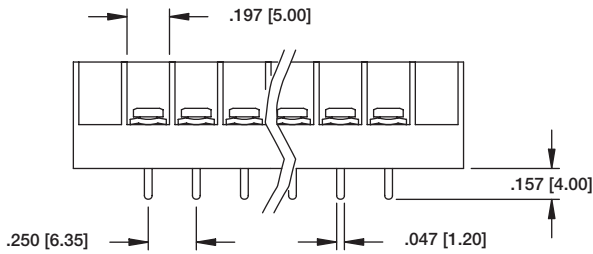
TBB



TBB-05-01-B

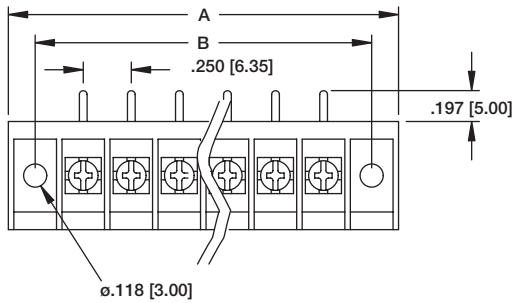


TBB-03-01-M



A = $.250 [6.35] \times \text{No. of Poles} + .557 [14.15]$
 B = $.250 [6.35] \times (\text{No. of Poles} + 1)$

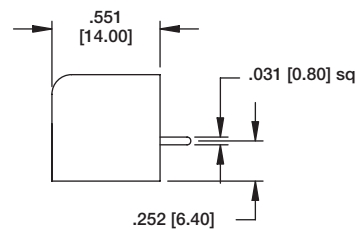
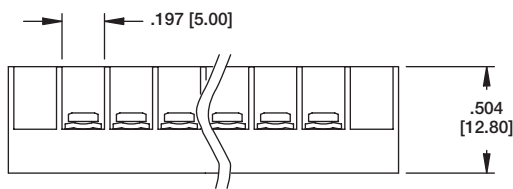
TBB



TBB-05-02-B

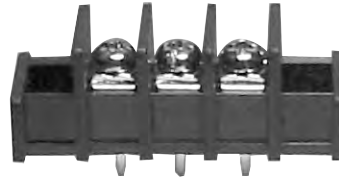
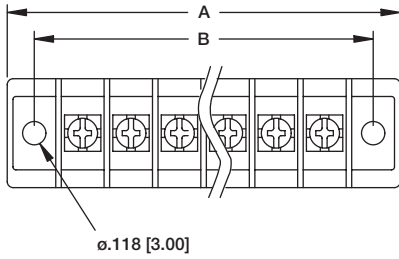


TBB-03-02-M

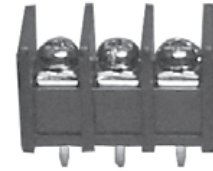
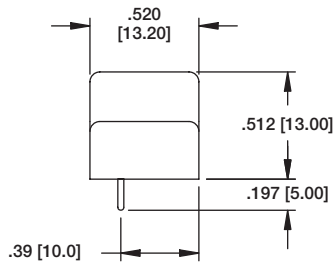
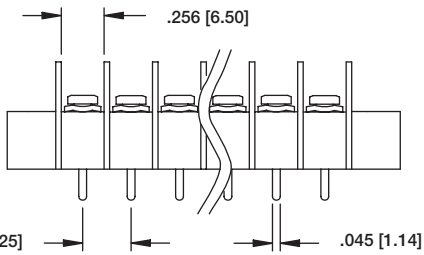


A = $.250 [6.35] \times \text{No. of Poles} + .557 [14.15]$
 B = $.250 [6.35] \times (\text{No. of Poles} + 1)$

TBC



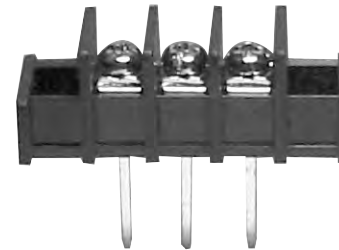
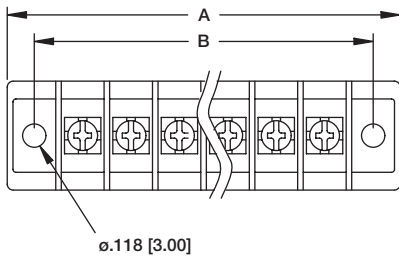
TBC-03-01-M



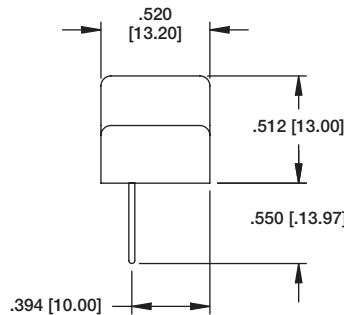
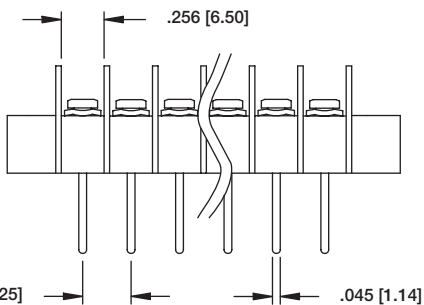
TBC-03-01-B

A = $.325 [8.25] \times \text{No. of Poles} + .728 [18.5]$
 B = $.325 [8.25] \times (\text{No. of Poles} + 1)$

TBC



TBC-03-06-M



TBC-03-06-B

A = $.325 [8.25] \times \text{No. of Poles} + .728 [18.5]$
 B = $.325 [8.25] \times (\text{No. of Poles} + 1)$

TBD

TBD-03-04-M

TBD-03-04-B

A = .325 [8.25] x No. of Poles + .728 [18.5]
 B = .325 [8.25] x (No. of Poles + 1) + .325 [8.25]

TBD

TBD-03-01-M

TBD-03-01-B

A = .325 [8.25] x No. of Poles + .728 [18.5]
 B = .325 [8.25] x (No. of Poles + 1) + .325 [8.25]

TBD

TBD-03-03-M

TBD-03-03-B

A = .325 [8.25] x No. of Poles + .728 [18.5]
 B = .325 [8.25] x (No. of Poles + 1) + .325 [8.25]

TBE

TBE-05-03-B

TBE-03-03-M

A = .325 [8.25] x No. of Poles + .728 [18.5]
 B = .325 [8.25] x (No. of Poles + .325 [8.25])

TBE

TBE-05-02-B

TBE-03-02-M

A = .325 [8.25] x No. of Poles + .728 [18.5]
 B = .325 [8.25] x (No. of Poles + .325 [8.25])

TBE

TBE-05-01-B

TBE-03-01-M

A = .325 [8.25] x No. of Poles + .728 [18.5]
 B = .325 [8.25] x (No. of Poles + .325 [8.25])

<p>Technical drawing of TBF-05-03-M terminal block showing top and side views with dimensions: A, B, $\phi .126 [3.20]$, $.315 [8.00]$, $.740 [18.80]$, $.374 [9.50]$, $.118 [3.00]$, $.325 [8.25]$.</p>	<p>TBF-05-03-M</p> <p>TBF-05-03-B</p> <p>A = $.374 [9.50] \times \text{No. of Poles} + .803 [20.40]$ B = $.374 [9.50] \times (\text{No. of Poles} + .374 [9.50])$</p>	<p>TBF</p>
<p>Technical drawing of TBF-05-05-M terminal block showing top and side views with dimensions: A, B, $\phi .126 [3.20]$, $.315 [8.00]$, $.740 [18.80]$, $.374 [9.50]$, $.118 [3.00]$, $.325 [8.25]$.</p>	<p>TBF-05-05-M</p> <p>TBF-05-05-B</p> <p>A = $.374 [9.50] \times \text{No. of Poles} + .803 [20.40]$ B = $.374 [9.50] \times (\text{No. of Poles} + .374 [9.50])$</p>	<p>TBF</p>
<p>Technical drawing of TBF-05-01-M terminal block showing top and side views with dimensions: A, B, $\phi .126 [3.20]$, $.315 [8.00]$, $.740 [18.80]$, $.374 [9.50]$, $.045 [1.14]$, $.325 [8.25]$.</p>	<p>TBF-05-01-M</p> <p>TBF-05-01-B</p> <p>A = $.374 [9.50] \times \text{No. of Poles} + .803 [20.40]$ B = $.374 [9.50] \times (\text{No. of Poles} + .374 [9.50])$</p>	<p>TBF</p>

TBG

TBG-05-02-B

TBG-03-02-M

CLOSED SIDE ENTRY PCB TERMINAL

A = .374 [9.50] x No. of Poles + .807 [20.50]
 B = .374 [9.50] x (No. of Poles + .374 [9.50])

TBG

TBG-05-01-B

TBG-03-01-M

CLOSED SIDE ENTRY PCB TERMINAL

A = .374 [9.50] x No. of Poles + .807 [20.50]
 B = .374 [9.50] x (No. of Poles + .374 [9.50])

TBG


TBG-05-03-B

TBG-03-03-M

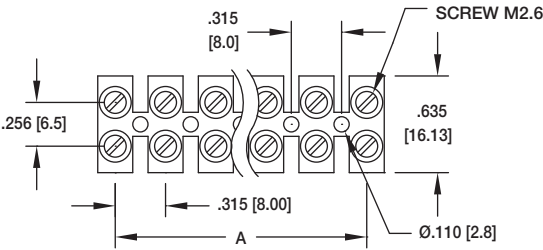
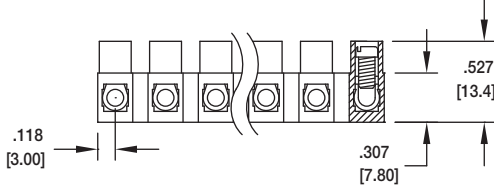
CLOSED SIDE ENTRY PCB TERMINAL

A = .374 [9.50] x No. of Poles + .807 [20.50]
 B = .374 [9.50] x (No. of Poles + .374 [9.50])

TDG
8.0mm PITCH




TDG-10

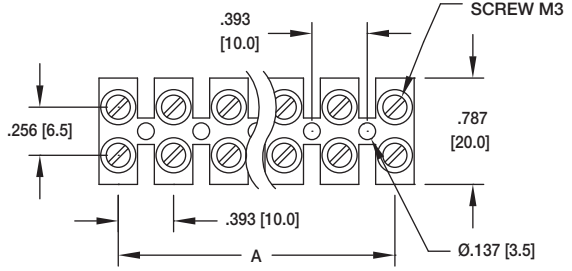
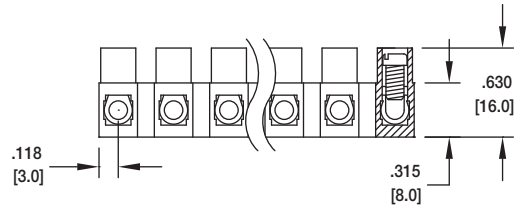



Positions 2 thru 12
A = .315 [8.00] x No. of Poles -1

TDH
10.0mm PITCH




TDH-10

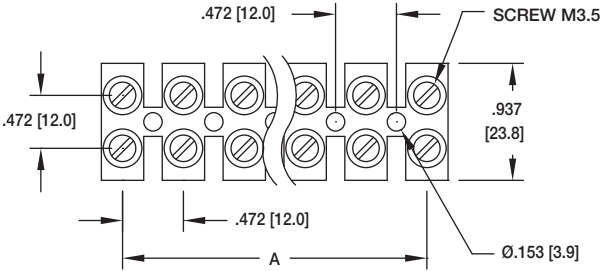
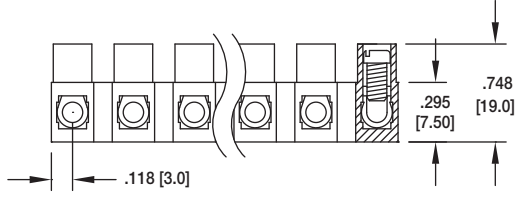



Positions 2 thru 12
A = .393 [10.00] x No. of Poles -1

TDD
12.0mm PITCH

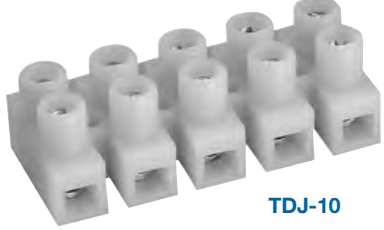


TDD-10

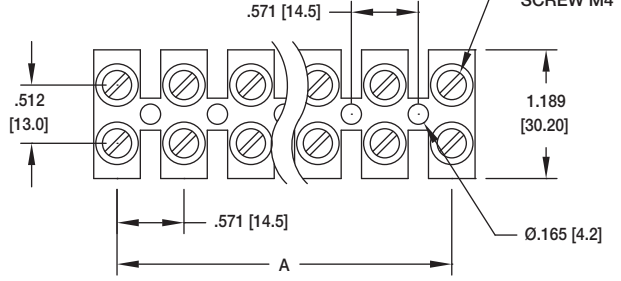
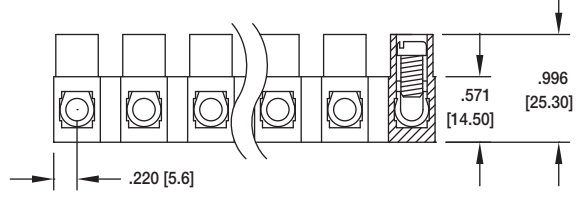



Positions 2 thru 12
A = .472 [12.00] x No. of Poles -1

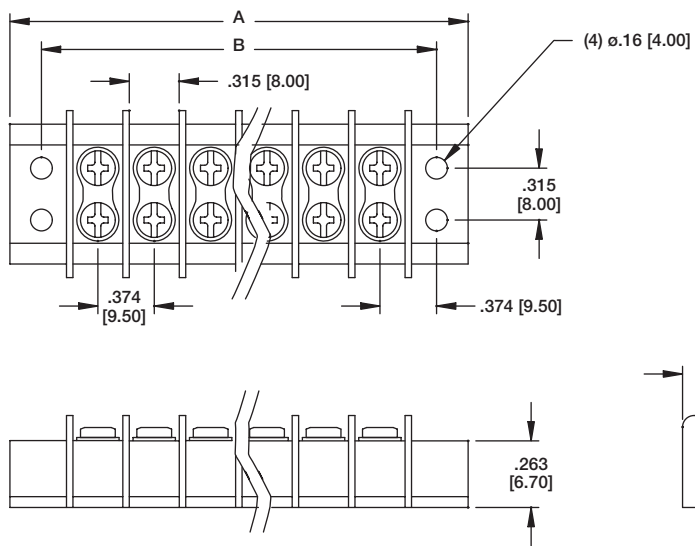
TDJ
14.5mm PITCH



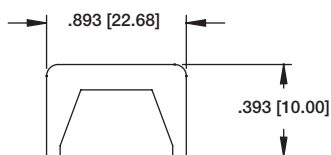
TDJ-10

Positions 2 thru 12
A = .571 [14.50] x No. of Poles -1

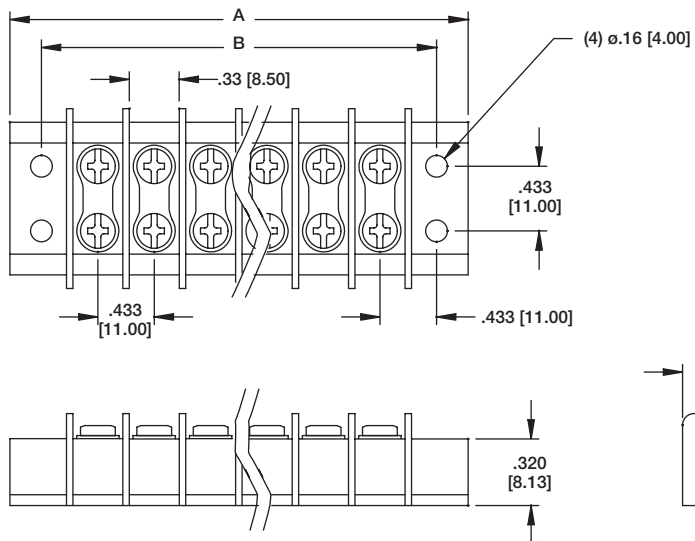


TDA-03

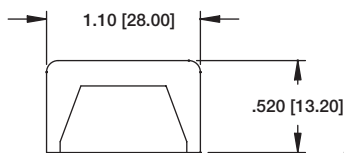


$A = .374 [9.50] \times \text{No. of Poles} + .670 [17.00]$
 $B = .374 [9.50] \times \text{No. of Poles} + .374 [9.50]$

TDA

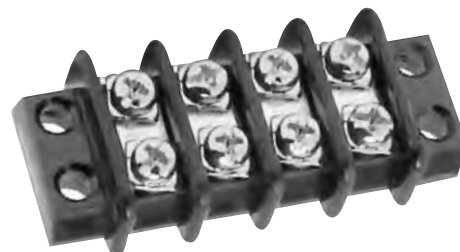
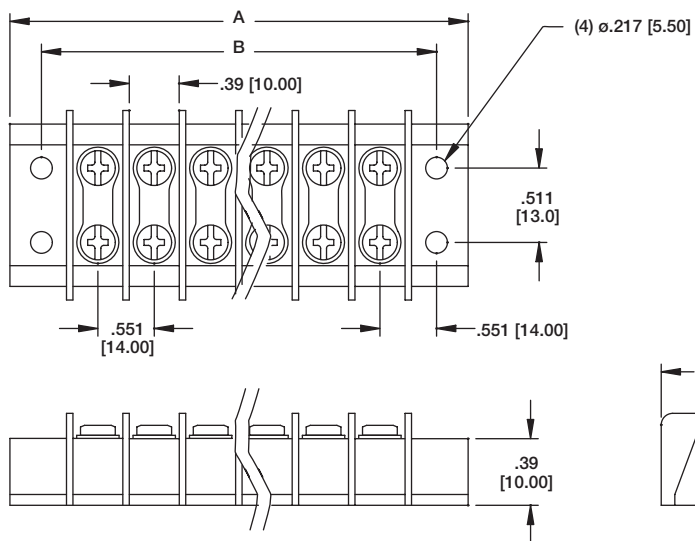


TDB-04

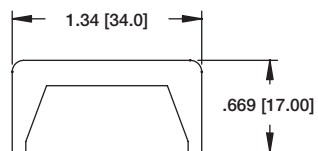


$A = .433 [11.00] \times \text{No. of Poles} + .815 [20.70]$
 $B = .433 [11.00] \times \text{No. of Poles} + .433 [11.00]$

TDB



TDC-04



$A = .551 [14.00] \times \text{No. of Poles} + .104 [26.40]$
 $B = .551 [14.00] \times \text{No. of Poles} + .551 [14.00]$

TDC

INTRODUCTION:

Adam Tech BH and BS series Battery Holders, Mobile Battery Connectors and Battery Snaps are designed to contain batteries in electronic equipment. This series includes battery holders and coin cell holders for AAA, AA, C, D, 9V and lithium coin cells. Adam Tech produces this series in a variety of terminations such as thru-hole PCB leads, SMT leads, wire leads and solder lugs. Custom lead lengths on wired configurations are also available. Our superior retention holders are molded of UL94-VO or UL94-HB material with spring steel contacts and perform extremely well under normal or adverse environment conditions.

BATTERY HOLDER SPECIFICATIONS:

Material:

Insulator: Impact resistant Polypropylene, rated UL94-HB
9V Holder, ABS, Glass filled rated UL94-HB

Insulator Color: Black

Spring: Spring Steel, Nickel plated

Contacts: Spring steel, Nickel plated

Snap terminals: Brass, Nickel plated

Wire: 26 Awg, PVC

Electrical:

Operating voltage: 1.5V to 9V DC max.

Temperature Rating:

Operating temperature: -55°C to +85°C

BATTERY SNAPS SPECIFICATIONS:

Material:

Soft PVC or rigid PP or PE

Snap terminals: Brass, nickel plated

Wire: 26 Awg stranded, UL1007, PVC insulation

Electrical:

Operating voltage: 9V max.

Temperature Rating:

Operating temperature: -55°C to +85°C

COIN CELL HOLDER & MOBILE BATTERY CONNECTOR SPECIFICATIONS:

Material:

Thru-hole: PBT Thermoplastic rated UL-94-VO

SMT: Hi-Temp Thermoplastic rated UL-94-VO

Electrical:

Operating voltage: 9V max.

Temperature Rating:

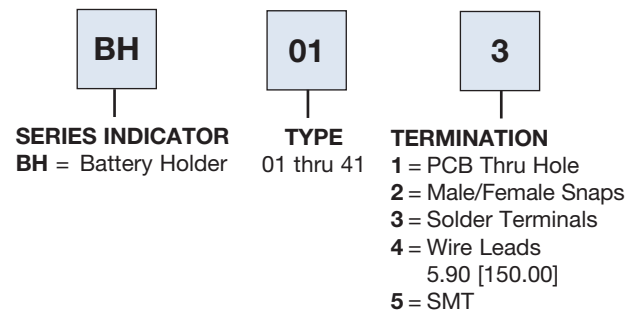
Operating temperature: -55°C to +85°C

SAFETY AGENCY APPROVALS:

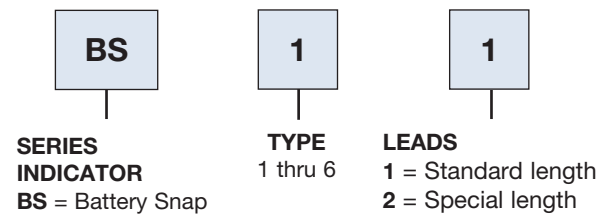
Manufactured with UL Recognized Materials



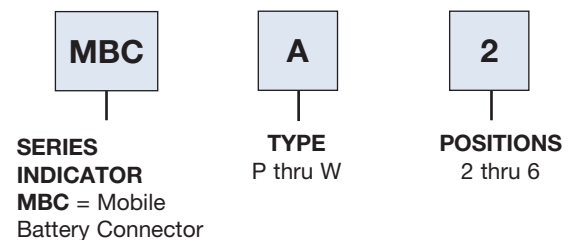
ORDERING INFORMATION BATTERY HOLDER

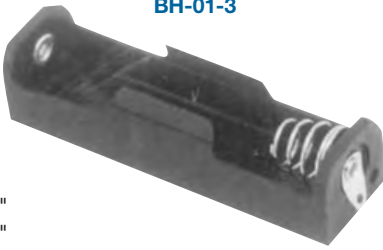


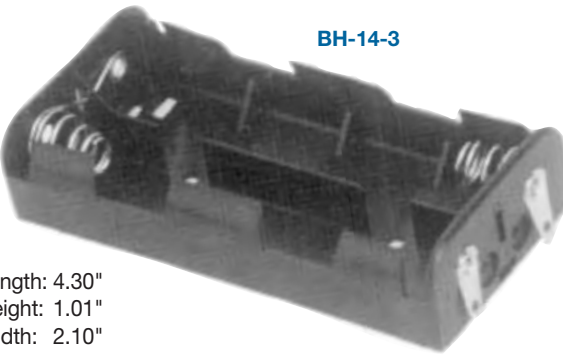


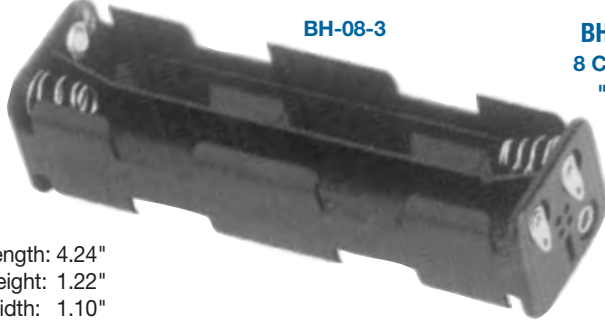
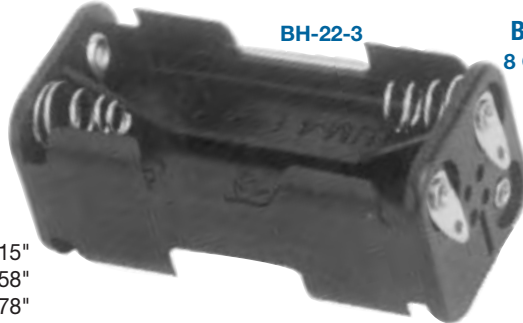
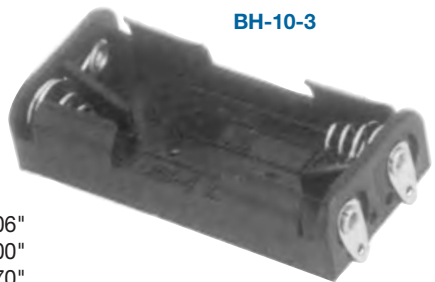



BATTERY SNAPS




MOBILE BATTERY CONNECTOR

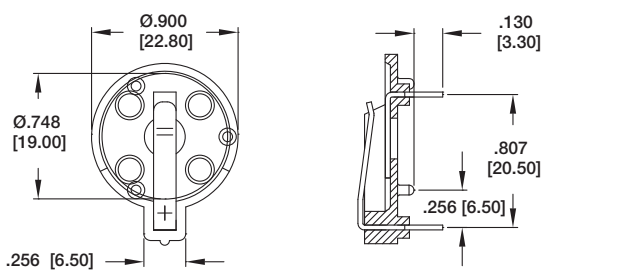


<p style="text-align: center;">BH-01-3</p>  <p style="text-align: center;">BH-01 1 CELL "AA"</p> <p>Length: 2.25" Height: .580" Width: .650"</p>	<p style="text-align: center;">BH-13-3</p>  <p style="text-align: center;">BH-13 2 CELL "C"</p> <p>Length: 2.41" Width: .900" Height: 2.21"</p>
<p style="text-align: center;">BH-03-3</p>  <p style="text-align: center;">BH-03 2 CELL "AA"</p> <p>Length: 2.26" Height: .590" Width: 1.23"</p>	<p style="text-align: center;">BH-14-3</p>  <p style="text-align: center;">BH-14 4 CELL "C"</p> <p>Length: 4.30" Height: 1.01" Width: 2.10"</p>
<p style="text-align: center;">BH-05-3</p>  <p style="text-align: center;">BH-05 4 CELL "AA"</p> <p>Length: 2.28" Height: 1.10" Width: 1.22"</p>	<p style="text-align: center;">BH-21-3</p>  <p style="text-align: center;">BH-21 6 CELL "D"</p> <p>Length: 2.68" Height: 1.13" Width: 2.85"</p>
<p style="text-align: center;">BH-08-3</p>  <p style="text-align: center;">BH-08 8 CELL "AA"</p> <p>Length: 4.24" Height: 1.22" Width: 1.10"</p>	<p style="text-align: center;">BH-22-3</p>  <p style="text-align: center;">BH-22 8 CELL "D"</p> <p>Length: 5.15" Height: 2.58" Width: 2.78"</p>
<p style="text-align: center;">BH-10-3</p>  <p style="text-align: center;">BH-10 2 CELL "AAA"</p> <p>Length: 2.06" Height: .500" Width: .970"</p>	<p style="text-align: center;">BH-24-3</p>  <p style="text-align: center;">BH-24 "9 VOLT"</p> <p>Length: 2.13" Height: .820" Width: 1.19"</p>

BH-25-1
COIN CELL BATTERY HOLDER




BH-25-1



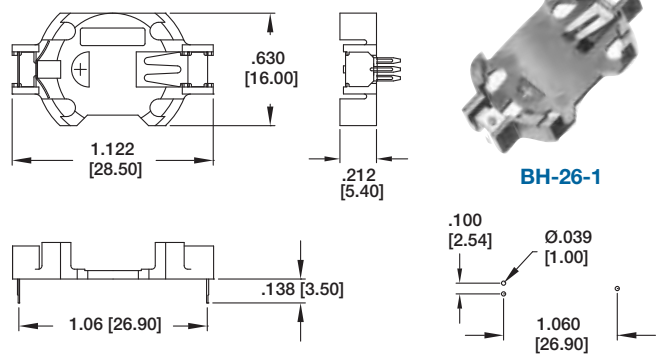
Recommended PCB Layout

Dimensions: $\text{Ø}.900$ [22.80], $\text{Ø}.748$ [19.00], $.256$ [6.50], $.807$ [20.50], $\text{Ø}.040$ [1.02], $.130$ [3.30], $.256$ [6.50], $.807$ [20.50]

BH-26-1
COIN CELL BATTERY HOLDER



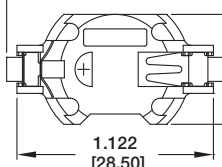
BH-26-1



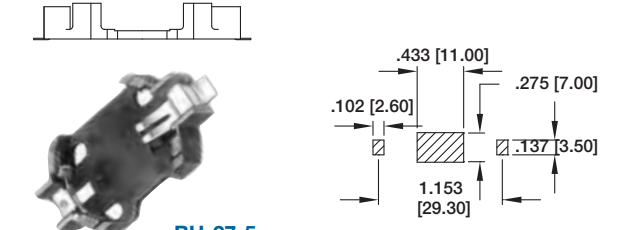
Recommended PCB Layout

Dimensions: 1.122 [28.50], $.630$ [16.00], $.212$ [5.40], 1.06 [26.90], $.138$ [3.50], $.100$ [2.54], $\text{Ø}.039$ [1.00], 1.060 [26.90]

BH-27-5
COIN CELL BATTERY HOLDER




BH-27-5



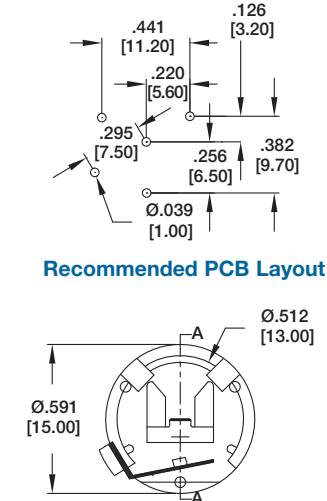
Recommended PCB Layout

Dimensions: 1.260 [32.00], $.630$ [16.00], 1.122 [28.50], $.212$ [5.40], $.433$ [11.00], $.275$ [7.00], $.102$ [2.60], 1.153 [29.30], $.137$ [3.50]

BH-41A-1
COIN CELL BATTERY HOLDER




BH-41A-1



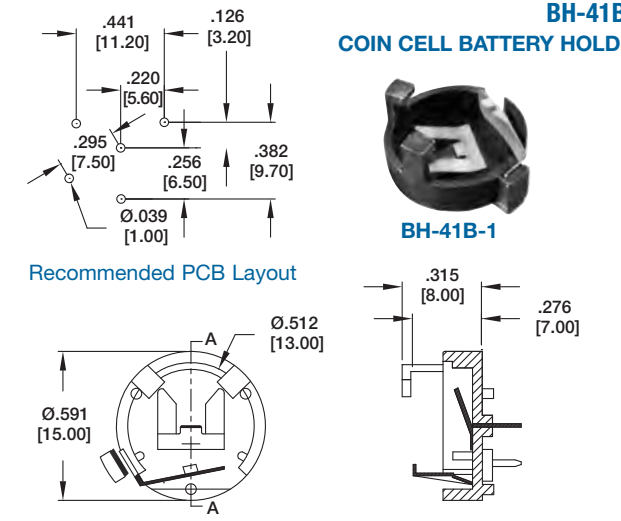
Recommended PCB Layout

Dimensions: $.441$ [11.20], $.126$ [3.20], $.220$ [5.60], $.295$ [7.50], $.256$ [6.50], $.382$ [9.70], $\text{Ø}.039$ [1.00], $\text{Ø}.512$ [13.00], $\text{Ø}.591$ [15.00], $.213$ [5.40], $.173$ [4.40]

BH-41B-1
COIN CELL BATTERY HOLDER




BH-41B-1



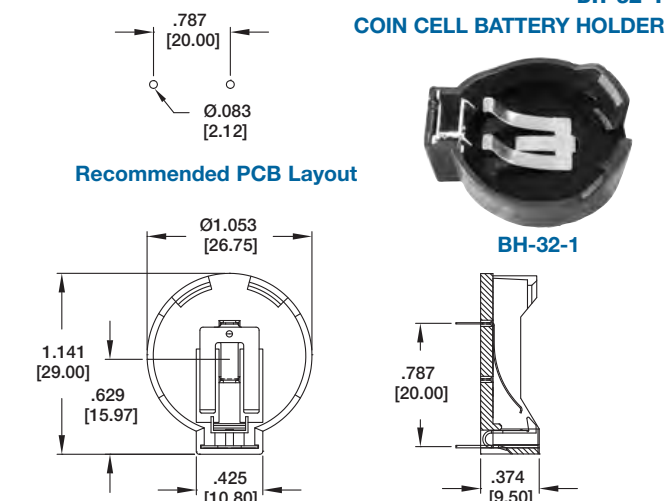
Recommended PCB Layout

Dimensions: $.441$ [11.20], $.126$ [3.20], $.220$ [5.60], $.295$ [7.50], $.256$ [6.50], $.382$ [9.70], $\text{Ø}.039$ [1.00], $\text{Ø}.512$ [13.00], $\text{Ø}.591$ [15.00], $.315$ [8.00], $.276$ [7.00]

BH-32-1
COIN CELL BATTERY HOLDER

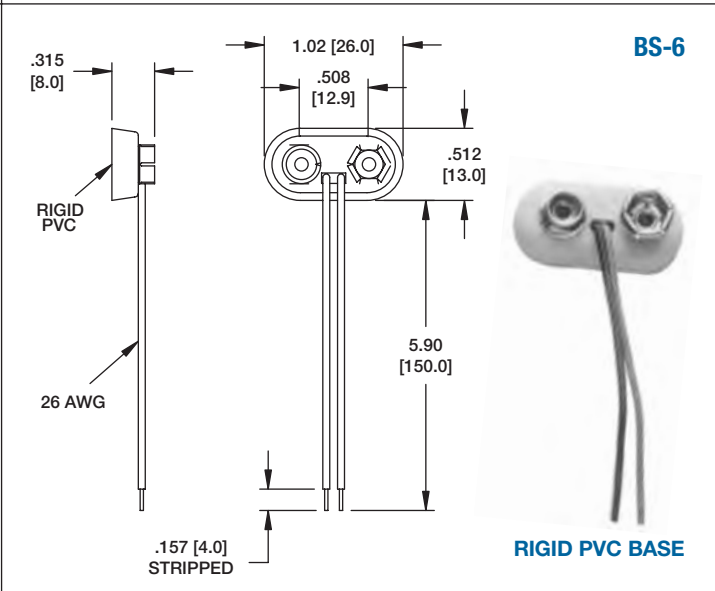
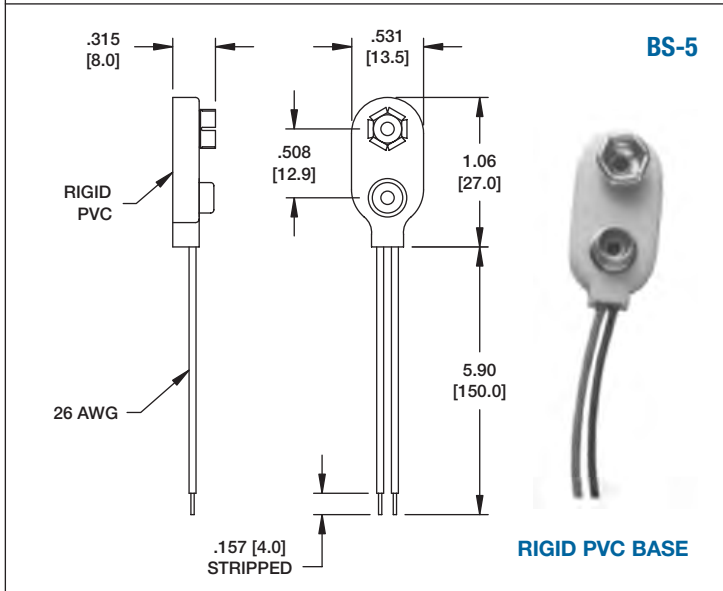
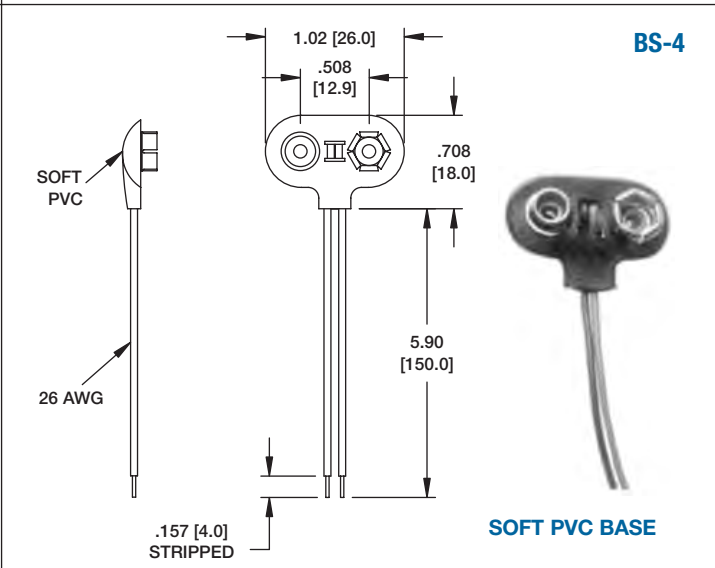
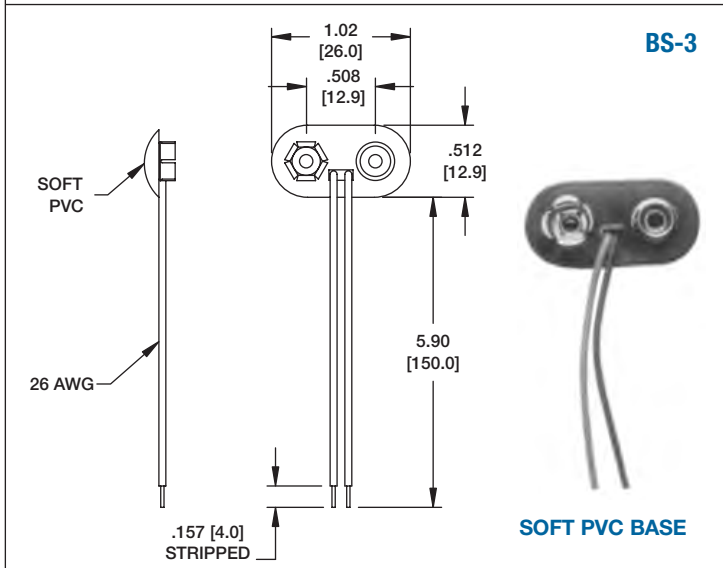
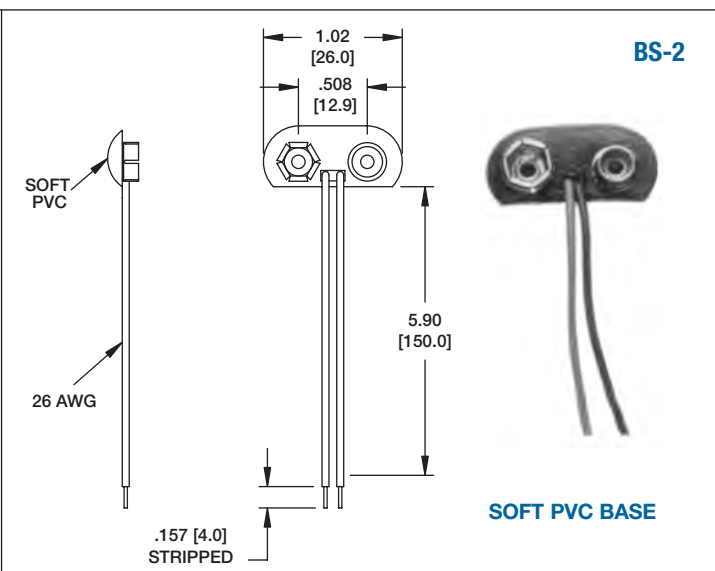
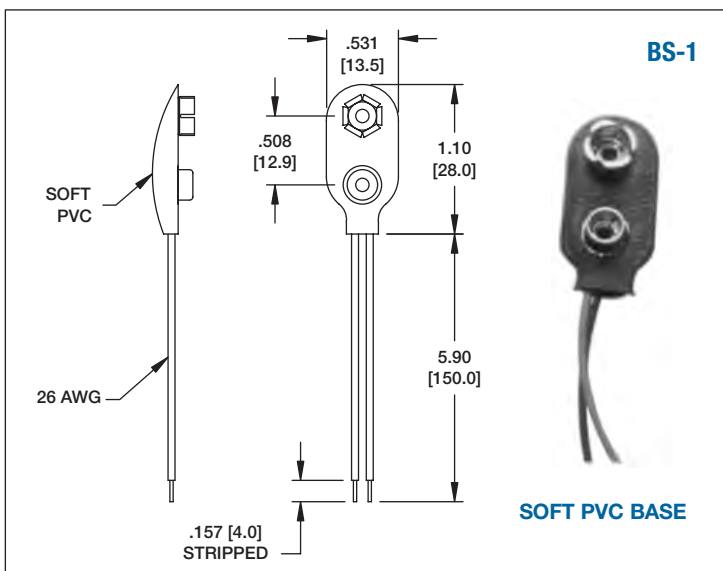


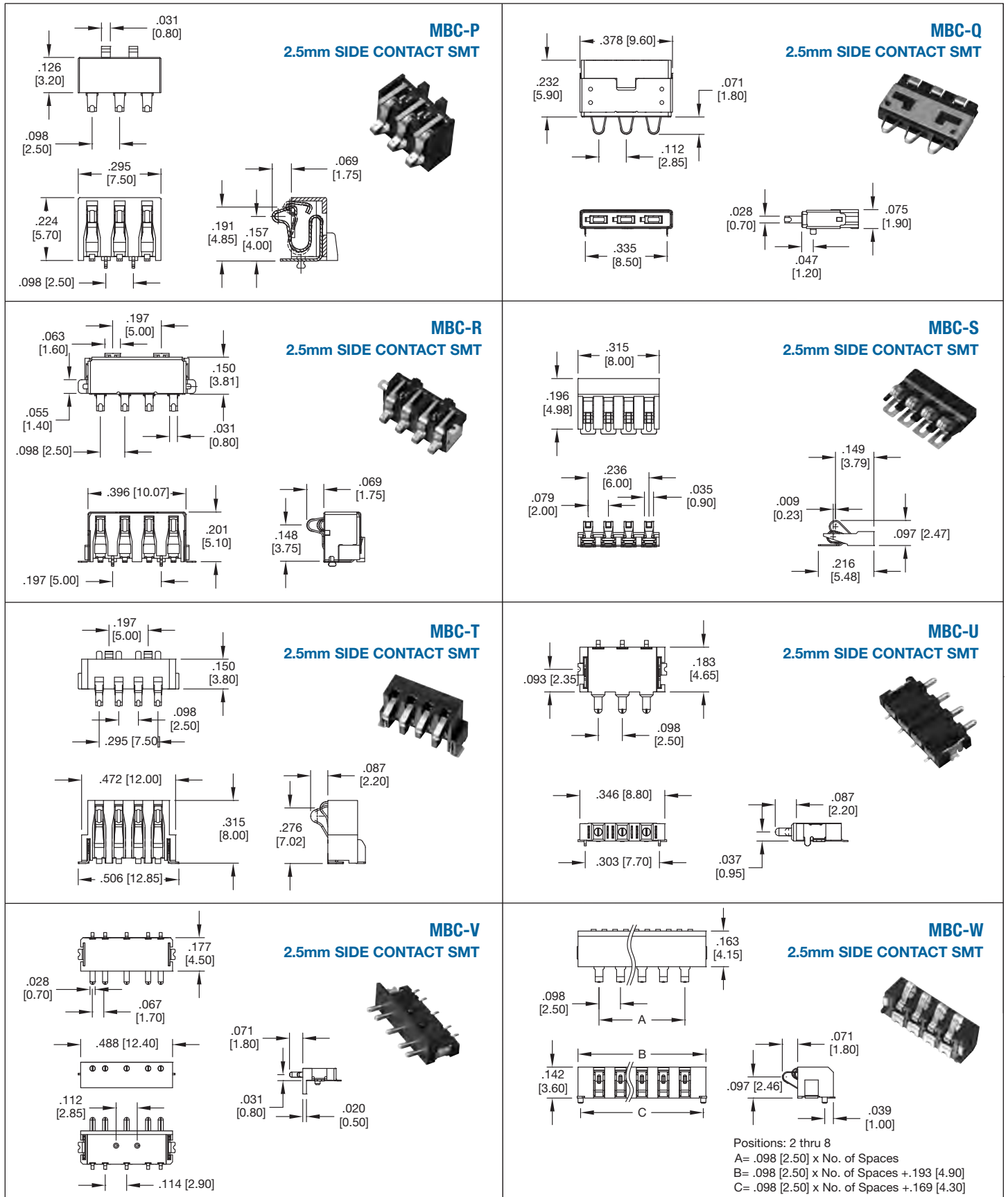
BH-32-1



Recommended PCB Layout

Dimensions: $.787$ [20.00], $\text{Ø}.083$ [2.12], $\text{Ø}1.053$ [26.75], 1.141 [29.00], $.629$ [15.97], $.425$ [10.80], $.787$ [20.00], $.374$ [9.50]





INTRODUCTION:

Adam Tech PC Series International Power Cordset series offers a wide range of cordsets with numerous international approvals for worldwide applications. Each is approved for use by one or all of the major safety organizations such as UL, CSA & VDE. This series is available in a wide range of cord types with choice of wire gauge and various shielding options. We offer numerous standard Power Cords designed to comply with specific world market requirements and an unlimited variety of custom cords manufactured to our customers specifications.

FEATURES:

- Sturdy, high reliability designs
- Worldwide Safety agency approvals
- Standard and Custom Power Cords
- Choice of cord types and shielding options

MATING CONNECTORS:

Adam Tech IEC series & power line filters, all international IEC 60320 power connectors.

SPECIFICATIONS:

Material:

Outer Jacket Color: Black, other colors optional



Temperature Rating:

Outer Jacket Temperature: 60°C
(75°C and 105°C optional)

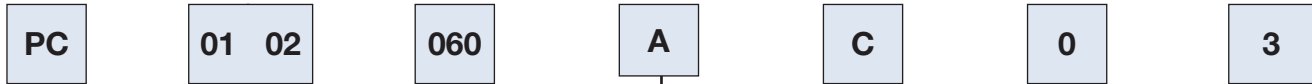


Safety Agency Approvals:

UL Recognized
File no. E303525 & E256360
Consult factory for additional international safety agency approvals



ORDERING INFORMATION



SERIES INDICATOR
PC = Power Cord

01 02

PLUG & SOCKET OPTIONS

- | | |
|---|---|
| 01 = American, NEMA 5-15P Straight | 12 = Italian, CEI 23-16 Grounded |
| 01H = North American Hospital Grade NEMA 5-15 | 13 = Australian, AS 3112 Grounded |
| 01HB = Color Black | 15 = Jacket and Conductor Stripped, Jacket 2.0" / Conductors 0.37" (Consult factory for custom jacket and conductor strip lengths) |
| 01HC = Color Clear | 16 = Blunt Cut |
| 01HG = Color Gray | 17 = International Female, IEC C7 |
| 02 = International Female, IEC C13 straight | 25 = American, NEMA 5-15P R/A |
| 03 = International Female, IEC C13 R/A | 28 = European, CEE 7/16 Straight |
| 04 = International Male, IEC C14 | 29 = Italian, CEI 23-16 |
| 06 = European, CEE 7/7 Straight | 30 = International Female, IEC C5 |
| 07 = European, CEE 7/7 R/A | 31 = Danish, SRAF |
| 08 = United Kingdom Fused, BS 1363 | 32 = South African, BS-546 |
| 10 = American, NEMA 1-15P Straight Non Polarized | 33 = South African, BS-546 R/A |
| 11 = Swiss, SEV 1011 Straight | 34 = Israel, SI-32 R/A |
| | 35 = Australian, AS 3112 |
| | 38 = European, CEE 7/17 Straight |

LENGTH
(Specified in ft/in)
060 = 6 FT 0 IN
076 = 7 FT 6 IN
State length as required












CORD TYPE
A = SVT, 60°C
B = SJT, 60°C
C = SJTW
D = SJTW-A
E = SPT-1
F = SPT-2
G = SPT-3
H = H03VV-F 3X0.75mm
I = H05VV-F 3X0.75mm
J = H05VV-F 3X1.00mm
K = H03VV-H 2X0.75mm
L = H05VV-F 3X1.50mm
M = SPT-1 NON-I INTEGRAL
N = SPT-2 NON-INTEGRAL
R = SJT, CEE
S = SVT, CEE
Q = SJT, 105°C
V = SVT, 105°C
W = SJTO
X = H05VV-F 2X1.00mm
Y = H05RN-F 3x1.00mm
Z = SJO
A1 = STW
A3 = ST
A4 = STO
A5 = SJT, CEE, 75°C
A6 = SVT, CEE, 75°C
A7 = SPT-2, 105°C
A8 = SJTO, 105°C
A9 = SJTOW, 105°C
B1 = SJTW, 105°C
B2 = SVT, CEE, 105°C

WIRE AWG
J = 12 AWG
A = 14 AWG
B = 16 AWG
C = 18 AWG
G = H03 & H05

SHIELDING
0 = Non Shielded
F = Foil Shield
S = Copper Braid and Foil Shield

JACKET COLOR
3 = Black
4 = Gray
5 = Beige
6 = White
8 = Brown
11 = Putty

PLUG & SOCKET OPTIONS

<p>PLUG 01</p>  <p>FUSED VERSION AVAILABLE</p> <p>NORTH AMERICA NEMA 5-15P</p>	<p>PLUG 01H</p>  <p>HOSPITAL GRADE NEMA 5-15P</p>	<p>PLUG 02</p>  <p>INTERNATIONAL FEMALE IEC C13</p>	<p>PLUG 03</p>  <p>INTERNATIONAL FEMALE R/A IEC C13</p>	<p>PLUG 04</p>  <p>INTERNATIONAL MALE IEC C14</p>
<p>PLUG 06</p>  <p>EURO PLUG CEE 7/7</p>	<p>PLUG 07</p>  <p>EURO PLUG CEE 7/7 RIGHT ANGLE</p>	<p>PLUG 08</p>  <p>UK FUSED BS 1363</p>	<p>PLUG 10</p>  <p>FUSED VERSION AVAILABLE</p> <p>NORTH AMERICA NEMA 1-15P</p>	<p>PLUG 11</p>  <p>SWITZERLAND SEV1011</p>
<p>PLUG 12</p>  <p>ITALY CEI 23-16</p>	<p>PLUG 29</p>  <p>ITALY CEI 23-16</p>	<p>PLUG 15</p>  <p>JACKET & CONDUCTOR STRIPPED</p>	<p>PLUG 16</p>  <p>BLUNT CUT</p>	<p>PLUG 17</p>  <p>INTERNATIONAL FEMALE IEC C7</p>
<p>PLUG 25</p>  <p>NORTH AMERICA NEMA 5-15P RIGHT ANGLE</p>	<p>PLUG 28</p>  <p>EURO PLUG CEE 7/16</p>	<p>PLUG 34</p>  <p>ISRAEL SI-32</p>	<p>PLUG 30</p>  <p>INTERNATIONAL FEMALE IEC C5</p>	<p>PLUG 31</p>  <p>DENMARK SRAF</p>
<p>PLUG 32</p>  <p>SOUTH AFRICA BS-546</p>	<p>PLUG 33</p>  <p>SOUTH AFRICA R/A BS-546</p>	<p>PLUG 13</p>  <p>AUSTRALIA AS 3112</p>	<p>PLUG 35</p>  <p>AUSTRALIA AS 3112</p>	<p>PLUG 38</p>  <p>EURO PLUG CEE 7/17</p>

Adam Tech manufactures a wide selection of low cost, custom cable assemblies to exact customer specifications using our UL approved connectors, wire and cable. Our production lines utilize the most updated equipment and processes to provide our customers with the highest level of quality and reliability. Many application specific assembly types are shown below. Please provide us with your application details to receive our competitive quotation.

- 100% Tested & Guaranteed
- Many Custom Variations of Industry Standard Assemblies are Available
- "Zero Defect" QA Program

Custom Cable Assemblies

- HDMI
- DisplayPort
- USB
- Firewire
- Network assemblies
- Flat Ribbon cable assemblies
- Discrete Wire cable assemblies
- Power Cord cable assemblies
- Patch Cord cable assemblies, Cat 5, 5e, 6
- RF Co-Axial: MHF, W.FL, MCX, MMCX
- DVI & SVGA
- Serial ATA
- D-Sub
- OBD II cables

				
D-SUB MULTI CABLE	LED TWISTED WIRE	POWER TRANSFER ASSY.	S TERMINAL / RCA ASSY.	2.36MM HOUSING ASSY
				
IDC SOCKET TO DIP PLUG	EMI USB-A TO USB-B	EMI USB TO EMI MINI-USB	MINI IEEE 1394 ASSY.	S-VIDEO SPLITTER ASSY.
				
IEEE 1394 6P TO 6P ASSY.	RG174/U SMA CABLE	RG174/U MMCX & RG16 SMB	CAB-SS-232MT/LFH26-DB25	SCSI MD50 TO DB25X2
				
SCSI MD50 TO V.35-F	USB DC CONVERTER	USB-A TO MINI USB-A	D-SUB 25 TO CENTRONIC 50P	IPAQ 3600 DATA CABLE

08CH	218-219	D***-PQ	62-64	HDT**SD	88-89	MSD	246
08SH	218-219	D***-PT	82-83	HDT**SR	94-95	MSDPR	246
125CH	218-223	D***-SA	80-81	HDT**ST	90-91	MSE	281-282
125CTA	218-220	D***-SD	76-77	HDBG	92-93	MTA	234-235
125SH	218-223	D***-SE	82-84	HDW	97	MTB	237-238
15CH	218-225	D***-SF	74-75	HFCS	305-306	MTC	237-239
15SH	218-225	D***-SH	72-73	HFDP	305-307	MTD	318-319
1CH	218-219	D***-SL	59-61	HFH	253	MTE	231
1CTA	218-219	D***-SN	68-69	HFTR	305-307	MTF	231
1MCT	166-167	D***-SQ	62-64	HMCA	156-157	MTJ	9-32,40-41
1SH	218-219	D***-SR	78-79	HMCT	167-168	MTJC	49
1SMC	165-169	D***-ST	82-83	HMHR	256-259	MTJG	34-39, 42-43
25CH	218-230	D***-PS	70-71	HPH1	250-251	MTJK	33
25SH	218-230	D***-SS	70-71	HPH2	250-252	MTJP	46-48
2BHR	268-269	DCP	78-79	HRS	260-263	MTP	50-51
2CH	218-228	DCS	78-79	HSH	253	MTPR	50-51
2CH2	218-219	DHPH	250-252	HSMC	166-169	MTS	234-236
2CTA	218	DIMM	170-171	ICM	166-169	MUSB	106-112
2FCS	308-309	DIN	210-217	ICS	163-164	NEMA	138
2FTR	308-309	DJ	199-200	IEC	129-141	PC***	348-349
2MCT	166-167	DJN	199-201	ISD	163-165	PCA	176-178
2MHR	270-271	DJP	199-201	JS	97	PCB	173-175
2PH*	264-267	DMF	323-324	LHA	234-235	PCD	302-304
2RS*	272-275	DMH	323-324	LHB	237-238	PCE	302-303
2SH	218-231	DMH	323-324	LHD	237-240	PCIE	151-152
2SMC	166-169	D2PH	264-267	LHC	237-239	PH	276-279
ADC	179-183	DP	170-171	LHS	234	PLCC	164-168
ADC-H	179	DPC	115-117	MBC	343-347	PLF	142-150
ADP	183	DPD	85-87	MCR	106-113	RCA	194-198
ASJ	184-190	DPH	280	MCT	167-168	RF	53
ASP	190	DPH1	280	MDE	202-203	RS1	290-301
BB4	185-186	DPH2	280	MDJ	202-205	RS	290-301
BB5	187-188	DS	208-209	MDJD	202-204	RS2	290-301
BB635	189	DVI	99-100	MDP	208-209	RSB	290-301
BB8	190-191	EB*	328-332	MDPC	115-116	RSE1	301
BB10	192	EBV2	328-332	MDS	208-209	RSE2	301
BH	343-345	EMI	98	MDV	202-205	SATA	123-128
BHR	383-385	FCE	312-313	MFC	241-244	SCC	247
BHRE	386-387	FCP	314-315	MFV	114	SD	246
BS	343	FCS	310-311	MHF	316-317	SDM	246
CDH	232-233	FDH	305-307	MHR	288-289	SDP	246
CDR	232-233	FDP	320-321	MMSP	247	SFC	52
CDR2	232-233	FTR	320-321	MP	206-207	SFCJ	52
CE	154-155	FWC	106-114	MPCI	153	SFF	52
CERA	154	HBHR	254-255	MPE	152	SMC	166-169
D**W*	65-67	HD15-PN	68-69	MPF	241-243	SIS	163-165
D***-HD	96	HD15-SN	68-69	MPH2	248-249	SPH2	248-249
D***-PA	80-81	HDCE	156-157	MPH	241-244	SRS2	248-249
D***-PD	76-77	HDCP	94-95	MPJ	206-207	TB*	333-340
D***-PE	82-84	HDL-PL/HDL-SL	92-93	MR14**	101-105	TD*	333-242
D***-PF	74-75	HDL15-PS	70-71	MR24**	101-105	TMC	166-167
D***-PH	72-73	HDL15-SS	70-71	MR36**	101-105	USB	106-111
D***-PL	59-61	HDMI-S	118-122	MR50**	101-105		
D***-PN	68-69	HDT**PD	88-89	MRS2	248-249		
D***-PR	78-79	HDT**PR	94-95	MS*	281-282		
		HDT**PT	90-91				

IAC Inlet, Outlet IEC-320	129-141	High Density Card Edge	156-157	Power Jacks, Mini DIN, 3P/4P	206-207
Audio Jacks, 2.6mm & 3.5mm	184-190	Housings, with IDC Contact	318-319	Power Line Filters	142-150
Audio Jacks, RCA	194-198	IC Sockets	163-165	Power Outlets	129-141
Barrier Strips	333-342	IDC Box Headers	314-316	RCA Jacks	194-198
Battery Holders	343-345	IDC Card Edge	312-313	Receptacles, IEC-320	129-141
Battery Snaps	346	IDC DIP Plugs	307, 320-321	Receptacle Strips for Pin Headers	
BNC	53-58	IDC D-Subs	74-75	.031" [0.80]	248-249
Board-to-Board	191-193	IDC Headers	314-316	.039" [1.00]	248-249
Box Headers		IDC Sockets	305-316	.050" [1.27]	260-263
.050" [1.27]	254-259	IDC Transition Plugs	320-321	.079" [2.00]	272-275
.079" [2.00]	268-271	IEC 320	129-141	.100" [2.54]	290-301
.100" [2.54]	283-289	IEEE 1394	114	.156" [3.96]	237-240
Cable Assemblies	350	Inlets, IEC-320	129-141	Receptacles with Hooks	302-304
Card Edge Connectors	154-155	Jacks, Audio, 2.5mm & 3.5mm	189-190	RF Connectors	53-58
Cat 5	27-28, 33	Jacks, DIN	199-201	RJ-11	9-49
Centronic	101-105	Jacks, Mini DIN	202-205	RJ-14	9-49
Champ	101-105	Jacks, Phono	184-190	RJ-45	9-49
Coin Cell Holders	345	Jacks, RCA	194-198	SATA	123-128
Compact Flash Sockets	245-247	Jacks, Stereo 2.5mm & 3.5mm	184-190	Serial ATA	123-128
D-Subs	59-98	Jacks, Modular	9-49	Screw Machine Sockets	166-169
DC Power Jacks	179-183	Keystone Jacks	33	Secure Digital Sockets	166-169
DDR Socket	170-172	Latching Box Header		Shrink DIP Sockets	163-165
Digital Video Interface	99-100	.050" [1.27]	256-259	Shunts	267, 281-282
DIMM Socket	170-171	.079" [2.00]	270-271	Sim Card Socket	245-247
DIN, 41612	210-217	.100" [2.54]	288-289	SMA	53-58
DIN Jacks, Circular	199-201	Latching Header & Housing	232-233	Small Form Factor	52
DIN Plugs	208-209	LED Jacks, RJ45	29-31	SMB	53-58
Disk Drive Connectors	327	LIF, Flex Circuit Connector	173-175	Sockets, DDR	170-172
Display Port	115-117	Locking Header & Housing	234-240	Sockets, DIMM	170-171
DVI Connectors	99-100	Magnetics Jacks	40-45	Sockets, Flat Cable	
Earphone Jacks	184-190	Memory Sockets	245-247	.050" [1.27]	305-306
Edge Card Connectors	154-155	Memory Stick	245-247	.079" [2.00]	308-309
EISA Connectors	156-157	Micro Secure Digital	245-247	.100" [2.54]	310-311
Euro Blocks	328-332	Micro USB	113	Sockets, IC	163-165
Euro DIN	210-217	Miniature Ribbon	101-105	Sockets, IC, Machined Pin	167
EMI/RFI D-Subs	98	Mini DIN Jacks	202-205	Sockets, PLCC	158-162
EMI/RFI Power Line Filters	412-150	Mini DIN Plugs	208-209	Sockets, Female Pin Header	
Female Pin Headers		Mini Display Port	115-117	.031" [0.80]	248-249
.031" [0.80]	248-249	Mini Firewire	114	.039" [1.00]	248-249
.039" [1.00]	248-249	Mini Flex	241-244	.050" [1.27]	260-263
.050" [1.27]	260-263	Mini HDMI	118-122	.079" [2.00]	272-275
.079" [2.00]	272-275	Mini IEC	139-141	.100" [2.54]	290-301
.100" [2.54]	290-301	Mini IEEE 1394	114	.156" [3.96]	237-240
.156" [3.96]	237-240	Mini PCI	151-153	Sockets, Shrink DIP	163-165
Filters, Power Line	142-150	Mini PCI Express	151-153	Stacked, D-Subs	85-87
Firewire	114	Mini Shunts	267, 281-282	Stacked, RCA	194-198
Flat Cable Box Header	314-316	Mini USB	112	Stacked, SATA	123-128
Flat Cable Card Edge Connector	312-313	Mobile Battery	347	Stacked, Stereo Jacks	184-190
Flat Cable D-Subs	74-75	Modular Jacks	9-49	Stacked, Telephone Jacks	39
Flat Cable Latch Header	316-317	Modular Plugs	50-51	Stacked, USB	106-113
Flat Cable Sockets	305-311	NEMA Receptacles	138	Stereo Jacks, 2.5mm & 3.5mm	184-190
Flex Circuit Connectors	173-178	Outlets, IEC-320	129-141	Telephone Jacks	9-49
Flexible Flat Cable Connectors	173-178	PCI E	151-153	Telephone Jack Coupler	49
FPC/FFC Connectors	173-178	PCI Express	151-153	Telephone Plugs	50-51
Hardware, D-Subs	96-97	Phone Jacks, Telephone	9-49	Terminal Blocks	333-342
Headers, Pin		Phono Jacks, 2.5mm & 3.5mm	184-190	Terminal Strips, Machined Contact	174-177
.031" [0.80]	248-249	Pico Flex	241-244	Terminal Strips, Pin Headers	248-301
.039" [1.00]	248-249	Pin Headers		Transition Plugs, IDC	330, 331, 342-343
.050" [1.27]	250-252	.031" [0.80]	248-249	Universal Serial Bus	106-113
.079" [2.00]	264-267	.039" [1.00]	248-249	USB	106-113
.100" [2.54]	276-280	.050" [1.27]	250-252	VESA	156-157
.156" [3.96]	237-240	.079" [2.00]	264-267	Wire Lead Jacks	46-48
Header & Housing systems	218-231	.100" [2.54]	276-280	Wire to Board Connectors	218-240
Headphone Jacks	184-190	.156" [3.96]	237-240	ZIF, Flex Circuit Connectors	176-178
HD D-Subs	88-95	PLCC Sockets	158-163		
HDMI	118-122	Power Cords	348-349		
High Density D-Subs	88-95	Power Jacks, DC Power	179-183		





ADAM TECH®

ADVANCED INTERCONNECT PRODUCTS AND SYSTEMS



CUSTOM SOLUTIONS

- Providing service from concept through design to production
- Improvements to quality or function
- Solving capacity or lead time issues
- Solution for single sourced components
- Cost reduction specialist



Adam Tech • USA
 909 Rahway Ave | Union, NJ 07083 | USA
 Tel: 908.687.5000 | Fax: 908.687.5710
 Email: info@adam-tech.com
 www.adam-tech.com

Adam Tech • TAIWAN
 5F-17, No.14, Lane 609, Sec. 5, Chongsin Rd.
 New Taipei City | Taipei County 241 | Taiwan (R.O.C.)
 Tel: 886-2 2999 8028 | Fax: 886-2 2999 8062
 Email: sales@adam-tech.com
 www.adam-tech.com.tw

Adam Tech • CHINA
 Songgang Town Industrial Park | Shenzhen City
 Guangdong Province | China
 Tel. 886-2 2999 8028 | Fax. 886-2 2999 8062
 Email: factory@adam-tech.com
 www.adam-tech.com.cn

Adam Tech • EUROPE
 Somerset | UK
 Email: europe@adam-tech.com
 www.adam-tech.com

Adam Tech • INDIA
 New Delhi | India
 Email: india@adam-tech.com
 www.adam-tech.com

Adam Tech • BRAZIL
 São Paulo | Brazil
 Email: brazil@adam-tech.com
 www.adam-tech.com



- RoHS2 Compliant, Lead Free
- REACH Compliant
- Deca BDE Compliant
- Halogen Free

info@adam-tech.com
 www.adam-tech.com

