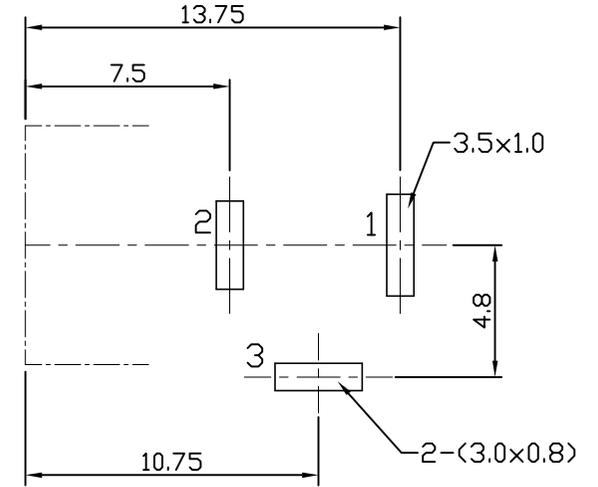
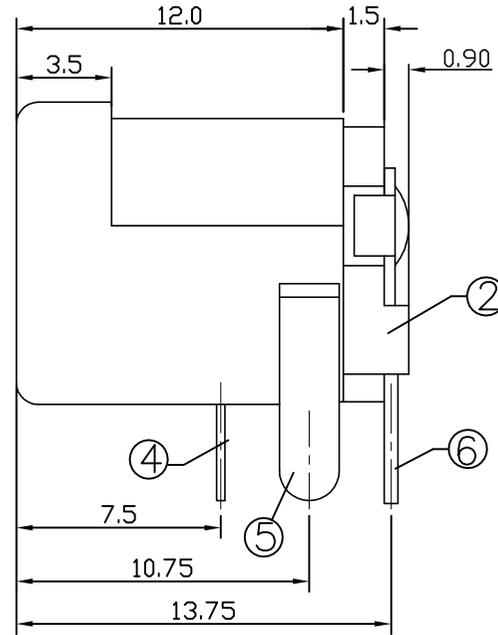
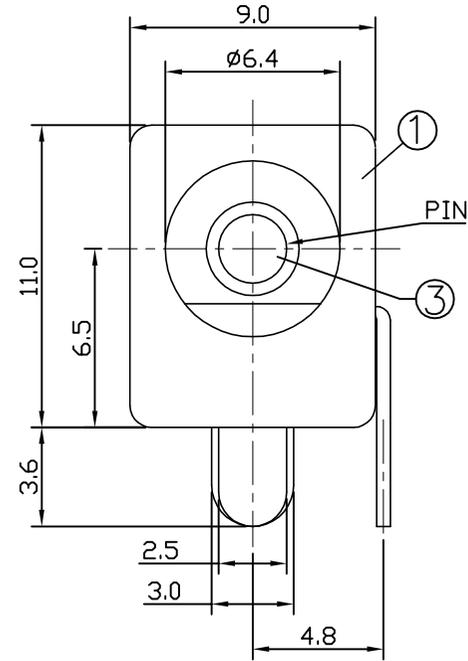


\* RoHS COMPLIANT \*



T:1.6 Dimensions of PC board holes  
Tolerance :  $\pm 0.05$ (Printed-top view)

CAT. NO.	PIN	SCHEMATIC
DC-001-A-CLF	$\phi 2.0$	
DC-001-B-CLF	$\phi 2.5$	

6	TERMINAL	1	C2680	t=0.5	Sn	PLATED
5	SHUNT TERMINAL	1	C2680	t=0.5	Sn	PLATED
4	TIP TERMINAL	1	C5191	t=0.3	Sn	PLATED
3	PIN	1	COPPER BAR		Ni	PLATED
2	COVER	1	PBT		UL-94V0	(BLACK)
1	BODY	1	PBT		UL-94V0	(BLACK)
LTR	PART NAME		QTY	MATERIAL		REMARK
DWN	LILY	DATE	2018.03.16	3RD ANGLE PROJECTION	NAME DC POWER JACK	
CHKD	ANDY	DATE	2018.03.16		CAT. NO. DCD-020-139_-CLF	
APVD	JON	DATE	2018.03.16		UNIT: mm	DWN.NO. DC-001-CLF
A&G POWER CO.,LTD						001

UNLESS OTHERWISE SPECIFIED, TOLERANCE ON DECIMAL:  $\pm 0.3$

# A&G POWER CO., LTD

## SPECIFICATION

<b>TITLE</b> DC POWER JACK (CLF type)	<b>SPC. NO.</b>	<b>PAGE : 1 OF 4</b> <b>DATE : 2019.04.03</b>
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### 1.Scope

This specification applies to unified polarity type DC jack used in electronic equipment.  
For DC input use.

### 2.Standard atmospheric conditions

Unless otherwise specified. The standard range of atmospheric condition for making measurements and tests are as follows :

Ambient temperature : 15°C to 35°C

Relative humidity : 25% to 80%

Air pressure : 86kPa to 106kPa

If there is any doubt about the results, measurements shall be made within the follow limits:

Ambient temperature : 20±2°C

Relative humidity : 60% to 70%

Air pressure : 86kPa to 106kPa

Operating temperature range: -25°C to 70°C

Storage temperature range: -25°C to 85°C

### 3.Mechanical characteristics

	Item	Conditions	Specification
1	Insertion force	Measurement shall be made after insertion and withdrawal using standard plug gauge 3 times.	2.94~29.4N (0.3~3kgf)
2	Withdrawal force	Measurement shall be made after insertion and withdrawal using standard plug gauge 3 times.	

ISSUE	DATE	WRTN	CHKD	APVD	DESCRIPTIONS

# A&G POWER CO., LTD

## SPECIFICATION

TITLE	SPC. NO.	PAGE : 2 OF 4	
DC POWER JACK (CLF type)		DATE : 2019.04.03	
4.Electrical characteristics			
	Item	Conditions	Specification
1	Rating		DC24V · 5A
2	Contact resistance	1K Hz Measured at small current (1A or less)	30 mΩ or less
3	Insulation resistance	A voltage of 500V DC shall be applied for a minute. Between conductors which should not make contact under normal conditions after which measurement shall be made.	100MΩ MIN.
4	Dielectric strength	Between conductors which should not make contact under normal conditions. 500V AC (50 to 60Hz) for 1 min.(trip current 2mA)	Without distinct damage.
5.Endurance characteristics			
	Item	Conditions	Specification
1	Solderability	The terminals shall be dipped into soldering flux, and shall be immersed into molten solder of 245 °C±5°C for a period 3±0.5 seconds.	A new uniform coating of solder shall cover a minimum of 95% of the surface being immersed.
2	Resistance to soldering heat	The terminal for a printed circuit board : Temperature of solder : 260 ±5°C Dip time : 5 ±1 seconds The terminal for a lead wire : Temperature of solder : 350 ±10°C Dip time : 3 ±1 seconds	Electrical and mechanical characteristics shall be satisfied.
3	Cold	The jack shall be stored at a temperature of -40°C±2°C for 96 hours. And then it shall be subjected to the controlled recovery conditions for 0.5 hours after which measurement shall be made.	Electrical and mechanical characteristics shall be satisfied.
4	Dry heat	The jack shall be stored at a temperature of 70°C ±2°C for 96 hours. And then it shall be subjected to the controlled recovery conditions for 0.5 hours after which measurement shall be made.	There shall be not show remarkable failure.
5	Humidity	The Pin Jack shall be subject to 90% ~95%RH, 40°C±2°C for 96 hours, and shall then be conditioned at room ambient conditions for a period of 30 minutes.	Electrical and mechanical characteristics shall be satisfied. Insulation resistance : 50MΩ MIN. Contact resistance : 50mΩ MAX.

# A&G POWER CO., LTD

## SPECIFICATION

<b>TITLE</b> DC POWER JACK (CLF type)	<b>SPC. NO.</b>	<b>PAGE : 3 OF 4</b> <b>DATE : 2019.04.03</b>
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	Item	Conditions	Specification
6	Life test	Insertion and withdrawal shall be made with the mating plugs and jacks for 5000 cycles at a speed of 10~30 cycles/min.	Insertion force : 29.4N MAX ( 3Kgf ) Withdrawal force : 2.94~29.4N ( 0.3~3kgf ) Contact resistance : Between plug and contact : 100mΩ MAX. Each closed contact : 60mΩ MAX.

### 6.Warning:

Dc power jack shall be dipped, warning to inferior contact by flux and transform mold.

Resistance to flux : It shall be prevention between PCB and housing.

Transform mold : It must not add direct heat to Dc power jack

Temperature of solder : 255°C MAX.

Preheat temperature : 90°C MAX.

Preheat time : 2 minute MAX.

# A&G POWER CO., LTD

## SPECIFICATION

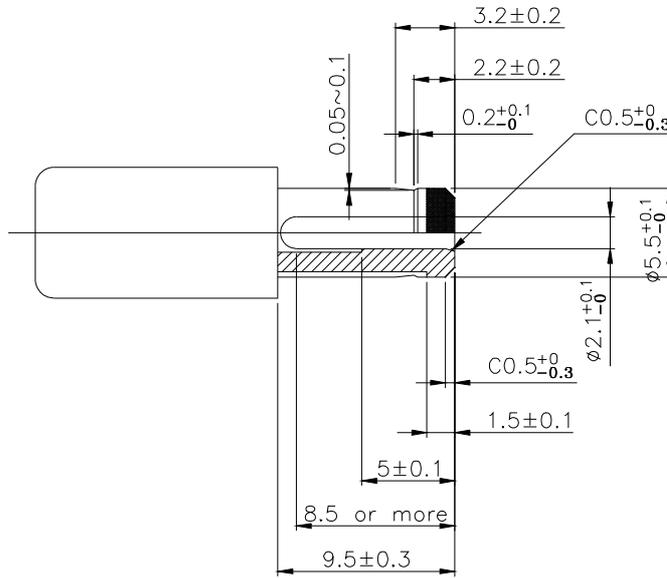
**TITLE**  
DC POWER JACK (CLF type)

**SPC. NO.**

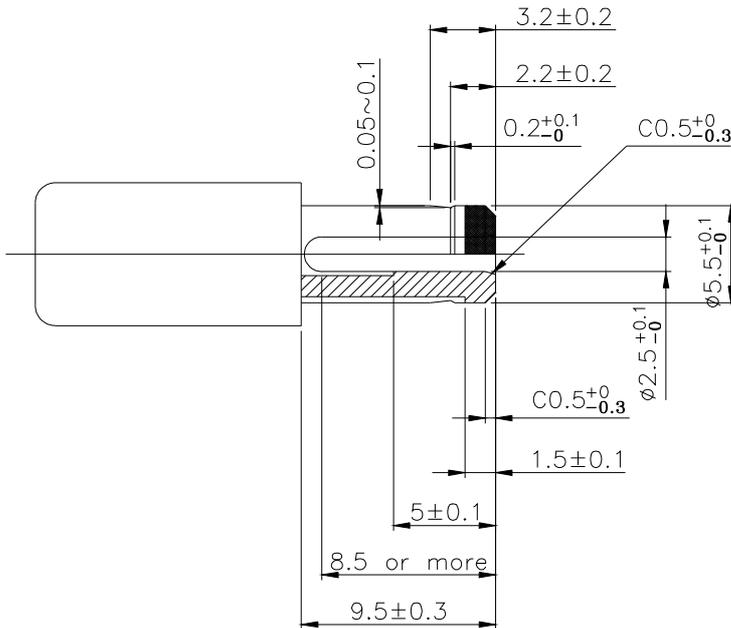
**PAGE : 4 OF 4**

**DATE : 2019.04.03**

### 7. Mating plug dimension



Ø2.0 PLUG



Ø2.5 PLUG