



# 承 认 书

## APPROVAL SHEET

客户名称: \_\_\_\_\_

CUSTOMER

品 名: 厚膜片式网络电阻器 (无铅表面处理)

PARTNAME THICK FILM CHIP NETWORK RESISTOR

RCMT08  \* \* \*

RCMT04  \* \* \*

RCML08  \* \* \*

RCMC08  \* \* \*

规 格:

SPECIFICATION

版 本 号: N-5.10

VERSION

日 期:

DATE

制 造			客 户		
APPROVAL			APPROVAL		
拟制	审核	确认	检验	审核	批准





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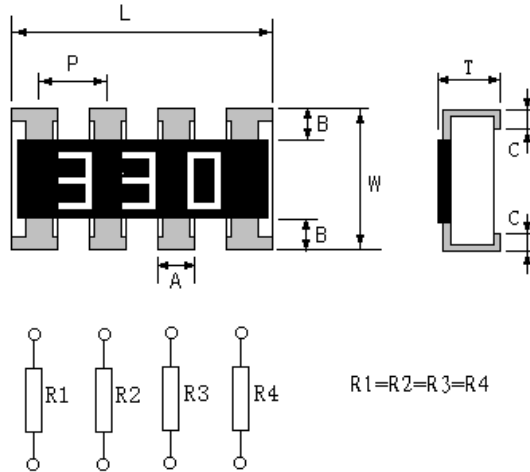
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RCMT/RCML/RCMC□□□□

DH10-0318

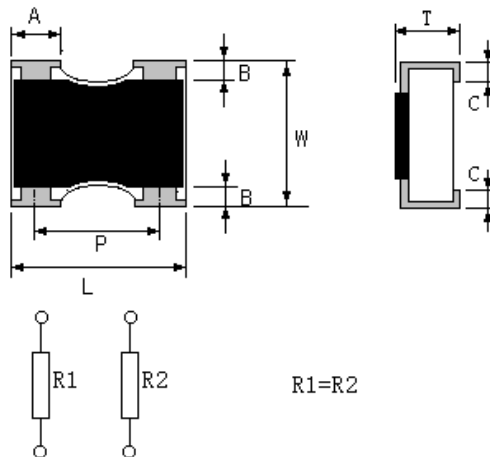
2.2 尺寸 Dimensions

RCMT/RCML/RCMC08:



型号 Type	L	W	T	P	A	B	C
RCMT08	2.00±0.10	1.00±0.10	0.45±0.10	0.50±0.05	0.30±0.15	0.15±0.10	0.25±0.10
RCML08	3.20±0.15	1.60±0.15	0.50±0.10	0.80±0.10	0.50±0.15	0.30±0.20	0.30±0.15
RCMC08	5.08±0.20	3.10±0.20	0.60±0.10	1.27±0.10	0.80±0.15	0.50±0.20	0.50±0.15

RCMT04:



类型 Type	L	W	T	P	A	B	C
RCMT04	1.00±0.10	1.00±0.10	0.35±0.10	0.65±0.05	0.35±0.10	0.15±0.10	0.25±0.10



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<p>2.3 产品外观 Appearance</p> <p>2.3.1 电阻器表面保护膜覆盖完好且难以脱落, 表面平整;</p> <p>The resistive element should be covered with protective coating that don't fade easily, the surface of coating should avoid unevenness</p> <p>2.3.2 电阻器端电极覆盖均匀、镀层较难脱落、而且平整、无开裂、针孔、变色;</p> <p>The electrode should be printed uniformly; the plating should not fade easily, and should avoid unevenness, flaw, pinhole and discoloration.</p> <p>2.3.3 电阻器芯片无裂痕、标记可辨.</p> <p>The resistive element should is crack-free, and the marking is readable.</p>	



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3.0 型号规格表示办法 How To Order

RCMT/RCML/RCMC:

F	±1%	跨接电阻 (J)
G	±2%	Chip Jumper
J	±5%	≤50mΩ
K	±10%	

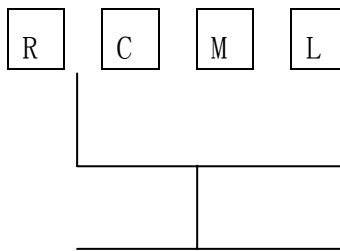
04
08

端子数

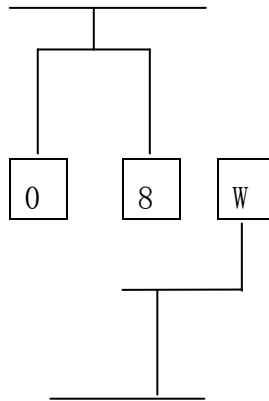
电阻公差代号

Terminal Number

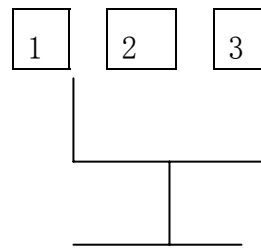
Resistance Tolerance



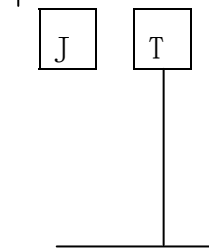
型号代号  
Type Code



端子形状  
Terminal Style



电阻值代号  
Resistance Value Code



包装方式代号  
Packaging Style Code

RCMT	0402 片式网络电阻 0402 Chip Network Resistors
RCML	0603 片式网络电阻 0603 Chip Network Resistors
RCMC	1206 片式网络电阻 1206 Chip Network Resistors

凸电极 convex type	W	直角 with corner
	V	缺角 without corner

T	编带 Tape & Reel
B	塑料盒 Bulk Case
C	散袋装 Bulk

※RCMC型号产品只生产端子形状“V”型产品  
 ※RCMC Chip Network Resistors only has “V” type terminal style.



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3.1 标记表示方法 the explanation for the resistance value marking

IEC E-24 系列电阻值对照表

IEC E-24 Series Resistance Cross-reference List

E-24 系列( E-24 series)

( $\times 10^n \Omega$ )

(单位 unit:  $1\Omega$ 、 $10\Omega$ 、 $100\Omega$ 、 $1K\Omega$ 、 $10K\Omega$ 、 $100K\Omega$ 、 $1M\Omega$ )

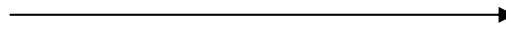
表一 (table one)

1.0	1.5	2.2	3.3	4.7	6.8
1.1	1.6	2.4	3.6	5.1	7.5
1.2	1.8	2.7	3.9	5.6	8.2
1.3	2.0	3.0	4.3	6.2	9.1

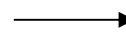
★RCMT08/RCML/RCMC 采用三位数字表示。前二位数字表示电阻值有效数字，第三位数字表示乘以 10 的次方数

For the type of RCMT08/RCML/RCMC: to express resistance value on the glass side with three digits; the first tow digits should be significant and the third one denote number of zeros.  
例 for example:

RCMT08/RCML/RCMC/ 33Ω:



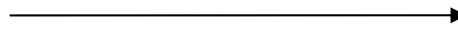
RCMT04: 表面不印刷标记。 There is no mark on the glass side.



★小数点以“R”表示 the decimal point should be expressed by “R”

例 for example:

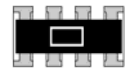
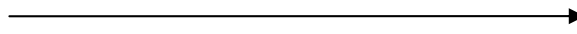
RCMT08/RCML/RCMC/1Ω:



★跨接电阻以“0”表示 the jumper should be expressed by “0”

例 for example:

RCMT08/RCML/RCMC/0Ω:



★非 IEC 标准系列的电阻值标记表示方法：一般以最接近 IEC E-24 系列标称阻值的标记表示方法。

For the resistance which doesn't belong to IEC serial, use the resistance of IEC serial which is most close to the required resistance of non-IEC serial for replacement.

★客户对标记有特殊要求时，则按照协商的结果印刷标记

To get agreement by both party if there special requirement for the marking.





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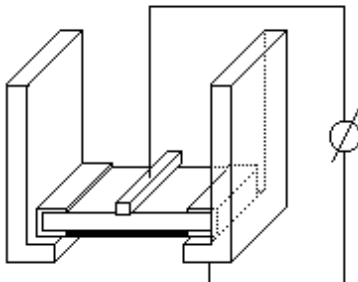
4.0 电气性能 Performance Specification

项 目 Item	规 格 Specification													
型 号 Type	RCMT08	RCMT04	RCML08	RCMC08										
常规功率 (70℃)	1/16W	1/16W	1/16W	1/8W										
注：当使用环境温度超过 70℃时应按“负荷下降曲线”（见下图）降负荷														
额定功率 Rated Power	负荷下降曲线 Power Derating Curve 使用温度范围 Temperature Range of Use -55℃~+125℃													
	<p>The graph shows a horizontal line at 100% load from -55°C to 70°C. From 70°C to 125°C, the load decreases linearly to 0%. The y-axis is '额定负荷百分比 (Rated Load) (%)' and the x-axis is '环境温度 Ambient Temperature (°C)'.</p>													
额定电压及使用最大工作电压 Rated Voltage & Max. Voltage Used	每一阻值额定电压根据下列公式计算出，当计算出的额定电压超过表中使用最大工作电压时，所使用的额定电压应为表中最大工作电压。The rated voltage at each resistance should be calculated. From the equation below, and when the rated voltage exceeds the maximum voltage used shown in the table, the rated voltage used should be the maximum voltage.		<table border="1"> <thead> <tr> <th>型 号 Type</th> <th>使用最大工作电压 Max Voltage Used</th> </tr> </thead> <tbody> <tr> <td>RCMT08</td> <td>50V</td> </tr> <tr> <td>RCMT04</td> <td>50V</td> </tr> <tr> <td>RCML08</td> <td>50V</td> </tr> <tr> <td>RCMC08</td> <td>200V</td> </tr> </tbody> </table>		型 号 Type	使用最大工作电压 Max Voltage Used	RCMT08	50V	RCMT04	50V	RCML08	50V	RCMC08	200V
型 号 Type	使用最大工作电压 Max Voltage Used													
RCMT08	50V													
RCMT04	50V													
RCML08	50V													
RCMC08	200V													
最大过负载电压 (耐电压) Max. Overload Voltage	$E = \sqrt{P \times R}$ E: 额定电压 Rated Voltage (V) R: 标称阻值 Normal Resistance (Ω) P: 额定功耗 Rated Power (W)													
	最大过负载电压为：2.5 倍额定电压 (2.5×E) 当计算出的电压值超过下表中最大过负载电压时，按下表： The Max. Overload Voltage should be 2.5×E, When the Voltage exceeds the maximum overload voltage in the table below. The value shown in the table should be the maximum one.													
	RCMT08	RCMT04	RCML08	RCMC08										
	100V	100V	100 V	400 V										



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续上表 continue				
项 目 Item	规 格 Specification			
跨接电阻额定电流 Jumper Rated Current	RCMT08	RCMT04	RCML08	RCMC08
	1A	1A	1A	2A
跨接电阻最大 过负荷电流 Jumper Max. Overload Current	RCMT08	RCMT04	RCML08	RCMC08
	2A	2A	3A	5A
电阻公差 Tolerance for Resistor	型号 Type	电阻公差 Tolerance for Resistor		
	RCMT08 RCMT04	±1%, ±2%, ±5%, ±10% (跨接电阻 Chip Jumper: ≤50 mΩ)		
	RCML08 RCMC08			
阻值范围 Range of Resistance for Manufacture	型号 Type	阻值范围 Resistance Range	系列 Series	
	RCMT08	0 Ω (跨接电阻 Chip Jumper) 1 Ω ~10M Ω	E-24 E-96	
	RCMT04			
	RCML08			
	RCMC08			
使用温度范围 Temperature Range of Use		-55~+125℃		
额定温度 Rated Temperature		+70℃		



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5.0 可靠性试验				
项目 Item	标准 Specification		试验方法 Test Methods (GB/T5729-2003)	
	网络电阻器 Network Resistor	跨接电阻 Jumper		
电阻温度系数 Resistance Temperature Coefficient	型号 Type	电阻值 Resistance	测定范围 Measured Between -55℃ ~ +125℃	
	RCMT08 RCMT04	10Ω ≤ R ≤ 1MΩ		±200PPM/℃
		1Ω ≤ R < 10Ω 1MΩ < R ≤ 10MΩ		±400PPM/℃
	RCML08 RCMC08	10Ω ≤ R ≤ 1MΩ		±100PPM/℃
1Ω ≤ R < 10Ω 1MΩ < R ≤ 10MΩ		±250PPM/℃		
短时间过负载 Short Time Overload	外观无可见损伤. No obvious damage. ΔR ≤ ±(2.0%R+0.1Ω)	外观无可见损伤. No obvious damage. ≤50mΩ	对电阻器施加 2.5 倍额定电压, 或最大过负载电压(取最小值), 持续 5 秒, Apply 2.5 times rated voltage or the max overload voltage (choose the small one) for 5 seconds.	
绝缘电阻 Insulation Resistance	1000MΩ Min	在电极与基片间施加 100V 直流电压, 保持 1 分钟, 然后测绝缘电阻值. Apply DC 100V between substrate and termination for 1 minute, then check insulation resistance.		



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续上表 continue			
项目 Item	标准 Specification		试验方法 Test Methods (GB/T5729-2003)
	网络电阻器 Network Resistor	跨接电阻 Jumper	
可焊性 Solder-ability	可焊面积≥95%. The termination coverage should be 95% min		将片状电阻器浸入非活性焊剂中浸渍大约2S, 然后去除多余焊剂, 将片状电阻器浸入到焊料槽内深达10mm, 焊料槽温度为240±5℃, 浸入时间为2±0.5秒, 用溶剂清洗掉电阻器上的焊剂残余物, 后在10倍放大镜下观察。 Resistor should be dipped in the melted solder bath at 240±5℃ for 2±0.5 sec. Flux should be removed from the surface of the termination with clean organic solvent.
耐焊接热 Resistance to Soldering Heat	外观无可见损伤, 标记可辨。 No obvious damage, with readable mark. $\Delta R \leq \pm (1.0\%R + 0.05 \Omega)$	外观无可见损伤, 标记可辨 No obvious damage, with readable mark. . $\leq 50m \Omega$	将片状电阻器浸入焊料槽内深达10mm, 焊料槽内温度为270±5℃, 浸入时间10±1秒, 在室温放置1~2小时. 用溶剂将多余的焊剂清洗掉, 然后测量电阻值。 Resistor should be dipped in the melted solder bath at 270±5℃ for 10±1 sec, Flux should be removed from the surface of the termination with clean organic solvent., resistor should be exposed at room condition for one or two hours, then check the resistance value.
引出端镀层 连接强度 Bending Strength	外观无机机械损伤 No mechanical damage $\Delta R \leq \pm (1.0\%R + 0.05 \Omega)$	外观无机机械损伤 no mechanical damage $\leq 50m \Omega$	<p>基板: 环氧玻璃层压印制线路板, 厚度: 1.6mm Substrate :Glass Epoxy (t=1.6mm) 铜箔厚度 Thickness of Copper foil: 0.035mm 支持台距离 Span: 90mm. 弯曲距离 Bending Distance: 3mm 保持时间 duration: 10S ± 1S</p>



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续上表 continue			
项目 Item	标准 Specification		试验方法 Test Methods (GB/T5729-2003)
	网络电阻器 Network Resistor	跨接电阻 Jumper	
温度快速变化 Rapid Temperature Cycle	$\Delta R \leq \pm (1.0\%R + 0.05 \Omega)$	$\leq 50m\Omega$	-55℃±3℃ 30分钟←常温≤5分钟→125℃±3℃ 30分钟连续5个循环. 电阻器在标准大气条件下恢复不少于1小时,也不多于2小时. -55℃±3℃ for 30mins←normal temp. for 5mins →125℃±3℃ for 30mins , total 5 cycles.
稳态湿热 Humidity (steady state)	$\Delta R \leq \pm (3.0\%R + 0.1 \Omega)$	$\leq 100m\Omega$	电阻器在温度为40±2℃,湿度90~95%湿热试验箱内维持1000+48/-0小时. Resistor should be exposed at 40±2℃ and 90~95% relative humidity in a humidity test chamber for 1000+48/-0 hours
负载寿命(70℃耐久性) Load Life	$\Delta R \leq \pm (3.0\%R + 0.1 \Omega)$	$\leq 100m\Omega$	在温度在70±2℃环境状态下以1.5小时通,0.5小时断周期地施加电压(额定电压或最大工作电压两者较小者),持续进行1000+48/-0小时. Resistor should be exposed at 70±2℃ for 1000+48/-0 hours ,during this time the rated voltage or the max working voltage (choose the small one) shall be applied intermittently for 1.5 hours ON, 0.5 hours OFF
耐溶剂性 Resistance to Solvent	外观无可见损伤 No obvious damage $\Delta R \leq \pm (1.0\%R + 0.05 \Omega)$	外观无可见损伤 No obvious damage $\leq 50m\Omega$	溶解溶液:三氯乙烯,浸10±1小时. Dipping in solvent solution of Isopropyl alcohol for 10±1 hours.



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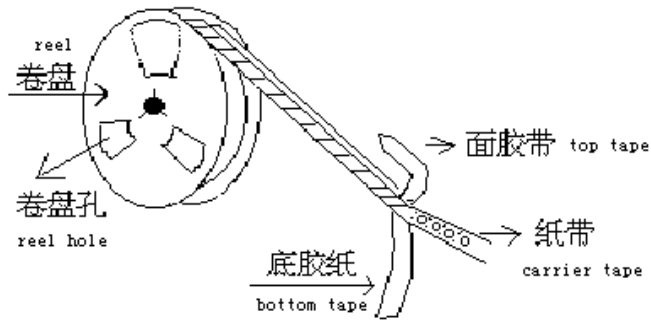
DH10-0318

6.0 包装 Package

6.1 编带包装 Taping

6.1.1 结构尺寸

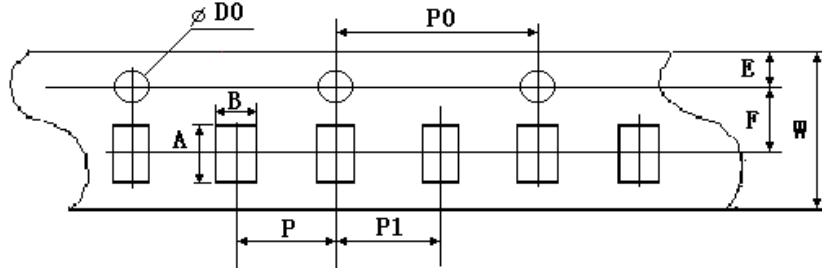
Dimension and Structure



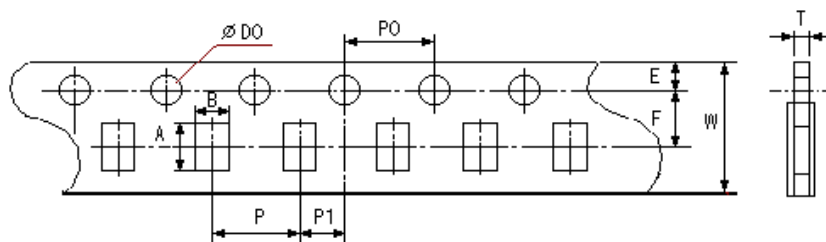
(A) 载带尺寸 Carrier Tape Dimension

◆ 纸带编带 paper carrier tape

For RCMT04/RCMT08 type:



For RCML08 type:



单位 unit:mm

型号 Type	A	B	W	F	E
RCMT08	2.20±0.10	1.20±0.10	8.00±0.20	3.50±0.05	1.75±0.10
RCMT04	1.20±0.10	1.20±0.10	8.00±0.20	3.50±0.05	1.75±0.10
RCML08	3.50±0.2	1.90±0.2	8.00±0.20	3.50±0.05	1.75±0.1



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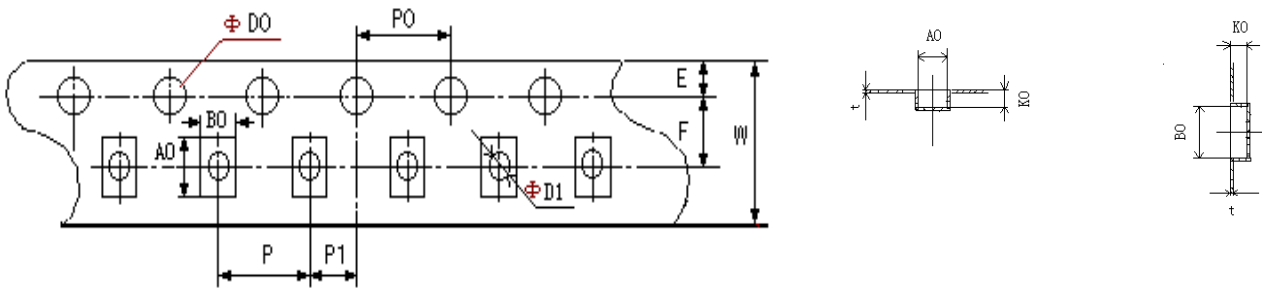
版本号 version of: N-5.10

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型号 Type	P	P0	P1	ΦD0	T
RCMT08	2.00±0.10	4.00±0.10	2.00±0.05	1.50±0.10	0.60±0.10
RCMT04	2.00±0.10	4.00±0.10	2.00±0.05	1.50±0.10	0.42±0.05
RCML08	4.00±0.10	4.00±0.10	2.00±0.05	1.50±0.10	0.75±0.10

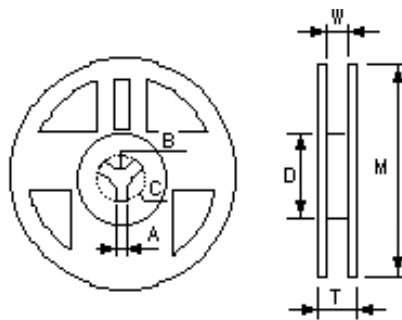
◆塑料带编带 Embossed Taping



单位 unit: mm

型号 Type	A0	B0	W	F	E	t
RCMC08	5.40±0.10	3.40±0.10	12.00±0.10	5.50±0.10	1.75±0.10	0.24±0.05
	P	P0	P1	ΦD0	ΦD1	K0
	4.00±0.10	4.00±0.10	2.00±0.05	1.55±0.10	1.50±0.10	0.81±0.10

(B) 卷盘尺寸 Reel Dimension



单位 unit: mm

型号 Type	M	W	T	A	B	C	D
RCML04 RCMT08 RCML08	178±2.0	9.5±1.0	12.5±1.5	2.0±0.5	13.0±0.5	21.0±0.5	58.0±2.0
RCMC08	178±2.0	13.0±0.5	15.5±1.5	2.0±0.5	13.0±0.5	21.0±0.5	57.0±2.0



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6.1.2 编带包装标准 Taping Specification

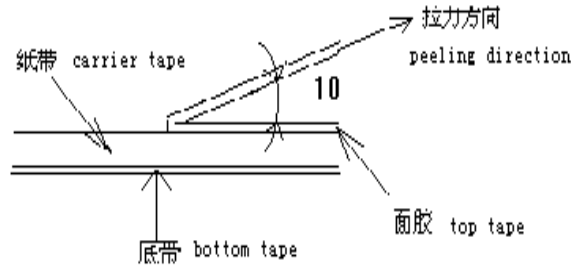
(A) 能力 ability

★面带拉力 top tape peel strength

面带拉力强度为 11~70g (0.1N~0.7N)，速度：300mm/min 经下列试验后不允许有破裂断带现象。

Peel strength is 11~70g (0.1N~0.7N) with speed of 300mm/min, and should not have flash and tear after peeling .

测试方法 test method:



★ 最小弯回半径 minimum bending radius:

当载带弯回到胶盘最小盘心半径时 (50mm)，应无漏片和载带破损现象。When carrier tape being bent by minimum bending radius(50mm),no defection of chip and no break of carrier tape,

★ 面胶温度测试 resistance to climate (for top tape)

在温度为 60℃，湿度 90~95%条件下，维持 120 小时后，面带不会自动剥离。

The top tape don't peel off after exposing at 60℃, 90~95% RH. for 120 hours

芯片松动自如,无粘面、底胶现象。

Resistor is free, no sticking to top tape and bottom tape.

芯片易从纸带中取出,且芯片孔无机械损伤。

Resistor is easy to take out from carrier tape and chip hole have no mechanical damage.

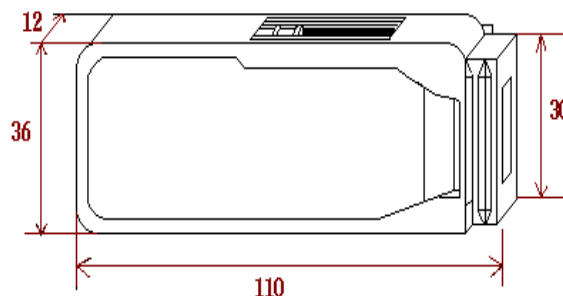
(B) 编带包装数量 Quantity in Taping

单位 unit: PCS / reel

型号规格 Type	数量 Quantity
RCMT08 RCMT04	10000
RCML08	5000
RCMC08	4000

(C) 塑料盒包装 Bulk Case

★结构尺寸 dimension and structure







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★ 包装数量 Quantity in Bulk Case

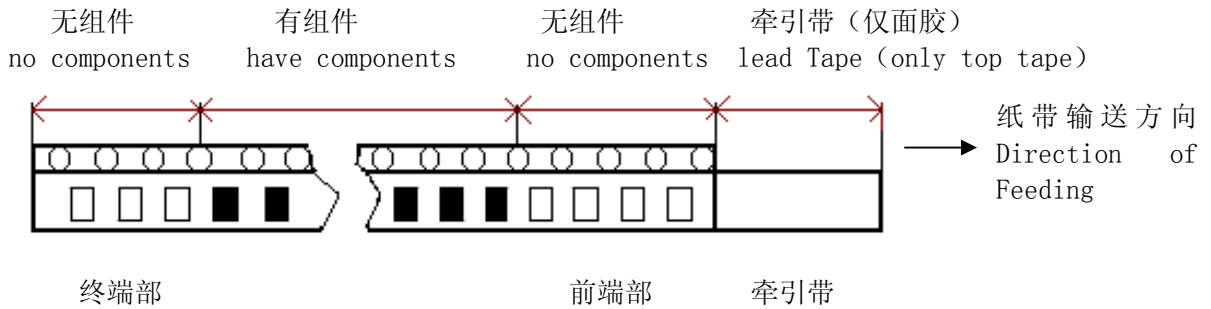
单位 unit: PCS/case

型号规格 Type	数量 Quantity
RCML08	5000
RCMC08	1000

(D) 塑料袋散装 Bulk

单位 unit: PCS

型号规格 Type	数量 Quantity
RCMT04	≤10000
RCMT08	
RCML08	
RCMC08	≤4000



长度 length

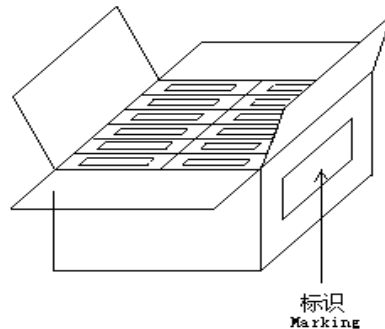
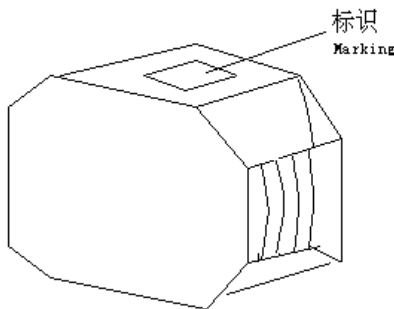
单位 unit: mm

终端部 terminal	前端部 front	牵引带 lead tape
110~140	200~250	300~350

6.1.3 外包装 outer packaging

第一次包装: 数量: 1卷~10卷  
the first package : 1~10 reels

第二次包装: 数量: 最少6盒  
the second package: 6case Min.



▲当包装数量不能达到最大时, 剩余空隙部位采用辅助材料填满.

When quantity shall not reach the max , the remaining empty space shall be buried with buffer material

▲ 当数量为最小时, 使用别的方法包装, 确保运输过程中无问题是至关重要的.

When the quantity is a few, alternative packing methods may be used. It is very important to ensure the safety of the products during transportation.



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6.1.4 标签 label

●卷盘标签 label on the reel

- (1. 客户物料号 customer part No. 2. 客户订单号 customer P/0) 3. 风华型号规格 fenghua Part No
- 4. 数量 quantity 5. 公称阻值 resistance 6. 额定功率 rated power
- 7. 电阻值误差 tolerance 8. 出厂日期 delivery date 9. QC 印章 QC marking
- 10. GP or RoHS marking

●内箱标签 label on inner packaging box

- (客户物料 customer part No. 2. 客户订单号 customer P/0) 3. 风华型号规格 fenghua Part No
- 4. 数量 quantity 5. 公称阻值 resistance 6. 额定功率 rated power
- 7. 电阻值误差 tolerance 8. 出厂日期 delivery date 9. QC 印章 QC marking
- 10. GP or RoHS marking

●外箱标签 label on outer packaging box

- 1. 客户名称 customer name 2. 合同编号 contract No. 3. 产品名称 product name
- 4. 风华型号规格 fenghua part NO. 5. 数量 quantity 6. 箱号 case No.
- 7. 制造者名称 maker name 8. QC 印章 QC marking 10. GP or RoHS marking

注：①( )部分可按客户要求而定。

Re mark :the content with bracket could be designed according to customers' requirement.

②一般情况下, 环保标志采用“GP”或“RoHS”两种, 客户可根据需要选择其中一种 usually, the environmental Logo will use “GP” or “RoHS” which up to customers.' Decision.

格式	卷盘标签上的环保标志 environmental logo on reel label	外箱上的环保标志 environmental logo on outer box
格式一		
格式二		



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7.0 贮存方法 Storage Methods:

● 贮存条件:温度 5~30℃, 相对湿度 30%~70%.

Storage Conditions: T: 5~30℃, RH: 30%~70%.

● 避免存放于有腐蚀性气体的环境。

Avoiding storage in place full of corrosive gas.

8.0 环保情况说明 Environmental Protection Statement

※ 产品符合 RoHS 指令 Compliant with RoHS Directive.

1) 表面处理层 (即外部电极) 无铅 (Pb≤100ppm)

The termination of the chip resistor is lead-free (Pb≤100ppm).

2) 本体中的铅属于RoHS指令豁免的“玻璃中的铅”

the Pb in the resistor body is belong to the RoHS exception of “Pb in glass material”

※ 根据中国《电子信息产品污染控制管理办法》的规定, 片式网络电阻器的有害物质情况如下:

According to the requirement of Administration on the Control of Pollution caused by Electronic Information Products, below are the hazardous substance information for the chip network resistor:

部件名称 part name	有毒有害物质或元素 hazardous substance					
	铅 (Pb)	汞 (Hg)	镉 (Cd)	六价铬 (Cr <sup>6+</sup> )	多溴联苯 (PBB)	多溴二苯醚 (PBDE)
片式网络电阻器 chip network resistor	×	○	○	○	○	○

○: 表示该有毒有害物质在该部件所有均质材料中的含量均在SJ/T11363-2006标准规定的限量要求以下。

○: Indicates that this toxic or hazardous substance contained in all of the homogeneous materials for this part is below the threshold requirement in ST/J11363-2006.

×: 表示该有毒有害物质至少在该部件的某一均质材料中的含量超出 SJ/T11363-2006 标准规定的限量要求。

×: Indicates that this toxic or hazardous substance contained in at least one of the homogeneous materials used for this part is above the threshold requirement in ST/J11363-2006.

※ 产品的环保使用期限标志如下:

the Environment Friendly Use Period logo as below:



备注: 此环保使用期限只适用于产品是在本产品承认书中所规定的条件下工作。

Remarks: Above “Environment Friendly Use Period” only applicable under the condition specified in this approval sheet.



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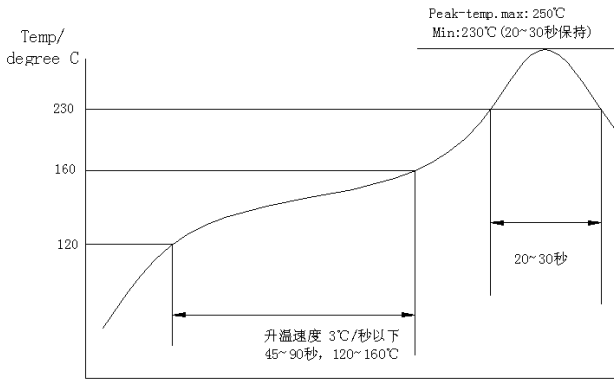
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9.0 表面处理无铅片阻推荐使用的焊接曲线 Recommended soldering profile

\*Recommended re-flow profile

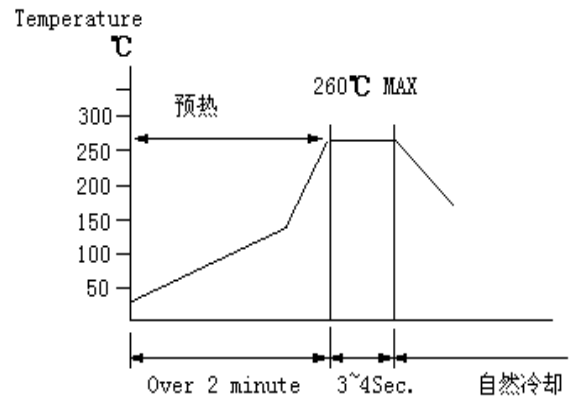
推荐的回流焊曲线

Re-flow 3 times 回流3次



\*Recommended wave solder profile

推荐的波峰焊曲线



9.1 推荐的焊膏类型 Recommended solder alloy :96.5Sn-3.0Ag-0.5Cu

10.0 使用注意事项 Precautions for use

- 建议在符合以上贮存条件下6个月内使用，

The products are suggested to use within six months when received, and the storage condition mentioned above should be followed.

- 无铅表面处理的产品适用于无铅焊接。

the lead-free surface treatment products are applicable for lead-free soldering.

- 请您盖章确认后将复印件御返我司，如三个月后未御返我司将视做默认接受。

Be sure to return a copy to our company after stamping your company acceptance, if no copy returned after three months, we would judge that you shall receive and accept this approval sheet.

- 如承认书有任何变更，之前的版本自动作废。

If there is any amendment, a former version shall become invalid.