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承 认 书

Specification For Approval

产品信息 Product information

产 品 名 称Product name： 6.1*2.5 贴片式陶瓷快断保险丝/6.1*2.5 SMD Ceramic tube Fast acting fuse

产 品 规 格Product model： SBF 250V 2410

拟 制 Prepared By	确 认 Reviewed By	批 准 Approved By
雷淑贤	邓 波	方 剑

客户承认 Customer Approval

客户名称 Customer name:

客户料号 Customer P/N:

经 办 Prepared By	审 核 Reviewed By	批 准 Approved By
确认结果 Verify the results：		
☐合格 Qualified	☐不合格 Unqualified	不合格原因 Root cause:

生效日期 Effective Date: 年 YY 月 MM 日 DD

1.如果本承认书获得贵司认可，请您签名后拷贝一份回传给我们。
If this acknowledgement letter is approved by your company, please sign it and send us a copy
2.当您下订单给诚润电子时，烦请在订单中列出上面产品信息表格中的产品名称和产品规格。
When you place an order with Chengrun Electronics, please kindly list the product names and specifications in the product information table above in the order form

变更履历

内　容	日　期	确 认
修改封面；增加履历页；修改内容；增加信赖性测试；完善产品特性项，	2025. 5. 7	方 剑
新增 40mA 规格参数	2025.8.16	方 剑
更新单体工程图	2025.8.26	方 剑
新增 35mA 规格参数	2025.9.10	方 剑
变更单体图尺寸中 L6.4±0.2 为 6.2±0.3	2025.10.9	方 剑
添加产品实物范例图片	2026.5.18	方 剑
9.C 增加存储条件；	2026.7.1	方 剑
明确电阻范围±20%	2026.8.20	方 剑

编　制	确　认	批　准
李尚品	邓　波	方　剑

1.适用范围 / Scope of Application

本产品适用于LCD / PDP电视.液晶显示器.LCD / PDP面板.LCD背光逆变器.便携式DVD播放器.电源.联网.PC 服务器.冷却风扇系统.存储系统.电信系统.无线基站.白色家电.游戏机.办公自动化.设备.电池充电电路保护.工业设备.医疗器材.汽车各类电子设备电路的过流保护作用。

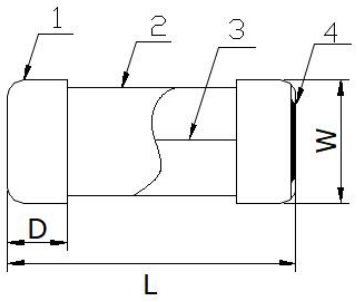
This product is suitable for LCD / PDP TV. LCD display. LCD / PDP panel. LCD backlight inverter. Portable DVD player. Power supply. Networking. PC server. Cooling fan system. Storage system. Telecommunication system. Wireless base station. . Game machine. Office automation. Equipment. Battery charging circuit protection. Industrial equipment. Medical equipment. Over-current protection of various electronic equipment circuits

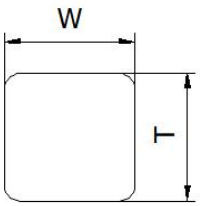
2.适用测试标准/ Standards

遵循 UL248-14

In accordance with UL248-14

3.单体/编带结构及尺寸 / Structure and dimensions of individual units and tape carriers

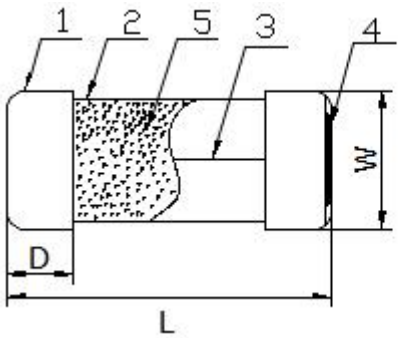


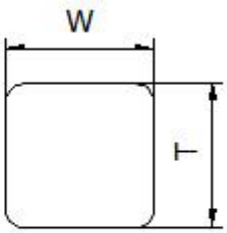


适用 50mA-400mA /applicable 50mA-400mA

Unit:mm

L	D	W	T
6.2±0.3	1.4±0.1	2.6±0.2	2.6±0.2





适用 500mA-10A/ applicable 500mA-10A

Unit:mm

L	D	W	T
6.2±0.3	1.4±0.1	2.6±0.2	2.6±0.2

编号 No	名称 Name	材质 Materials
1	镀银铜帽 Ag cap	Ag plated Cu
2	陶瓷管 Ceramic tube	Ceramic
3	熔丝 Elements	Alloy
4	焊锡 Solder	Tin
5	石英砂 Quartz sand	SiO_2



4.认证清单/ Certification List

安规标准 Agency	认证电压 Certified voltage	认证电流 Ampere Range	证书编号 Agency File Number
UR-CUR	250Vac	50mA62mA/80mA/100mA/125mA/160mA/200mA/250mA/315mA/400mA/500mA/630mA/750mA/800mA/1A/1.25A/1.6A/2A/2.5A/3.15A/4A/5A/6.3A/7A/8A/10A	E358589

5.产品标示 / Product Markin

保险丝外壳顶部需有下列标示: The top of the fuse cap shall have the following markings

以 1A 举例: Example 1A

	F	1A
1	2	3

1 工厂徽标: Chevron Logo:

2 特性符号: Characteristic symbol: F

3 额定电流: Rated Current: 1A

注意: A.对于标示的大小和位置没有规定 Size and position of the markings shall not be provided;

B. 其它电流对应安规符号请参考产品特性中 Marking 栏 For other current values, please refer to the "Marking" column in the product characteristics for the corresponding safety marking symbols

6.产品外观和形状要求/ Appearance and shape requirements

A. 外观不应出现显著的污点、裂纹，标识应该容易辨识

There shall not be any remarkable stain and crack on the appearances, markings shall be easily legible

B. 贴片式陶瓷保险丝

SMD type ceramic tube fuse

C. 铜帽平整，不出现歪帽现象

The copper cap is flat and does not exhibit any skewed appearance

7.产品特性/Product Characteristic

Part No	Rated Current	Rated Voltage	Typic Cold DCR(mΩ ±20%)	Breaking Capacity	I^2T A^2s	Safety Approvals
SBF00350250	35mA	250Vac	7000		0.00021	-
SBF00400250	40mA	250Vac	6000	UL 50A@250Vac	0.00023	-
SBF00500250	50mA	250Vac	5700		0.00025	cULus
SBF00620250	62mA	250Vac	4720		0.0003	cULus
SBF00800250	80mA	250Vac	3960		0.0005	cULus
SBF01000250	100mA	250Vac	3700		0.0006	cULus
SBF01250250	125mA	250Vac	3570		0.0054	cULus
SBF01600250	160mA	250Vac	414		0.027	cULus
SBF02000250	200mA	250Vac	345		0.031	cULus
SBF02500250	250mA	250Vac	336		0.033	cULus
SBF03150250	315mA	250Vac	-		-	cULus
SBF04000250	400mA	250Vac	272		0.073	cULus
SBF05000250	500mA	250Vac	320		0.038	cULus
SBF06300250	630mA	250Vac	-		-	cULus

SBF07500250	750mA	250Vac	-		-	
SBF08000250	800mA	250Vac	145		0.130	
SBF11000250	1.0A	250Vac	109		0.183	
SBF11250250	1.25A	250Vac	94.79		0.23	
SBF11500250	1.5A	250Vac	59		0.85	
SBF11600250	1.6A	250Vac	61.10		0.9	
SBF12000250	2.0A	250Vac	48.49		1.21	
SBF12500250	2.5A	250Vac	41.64		1.44	
SBF13000250	3A	250Vac	23.79		3.06	
SBF13150250	3.15A	250Vac	23.79		3.06	
SBF13500250	3.5A	250Vac	-		-	
SBF14000250	4.0A	250Vac	17.63		3.56	
SBF15000250	5.0A	250Vac	13.16		4.84	
SBF16000250	6.0A	250Vac	10.00		8.08	
SBF16300250	6.3A	250Vac	9.53		9.18	
SBF17000250	7A	250Vac	8.91		11.56	
SBF18000250	8.0A	250Vac	6.88		18.49	
SBF21000250	10.0A	250Vac	5.88		29.16	

8.特性测试/ characteristic test

测试条件/Test Condition

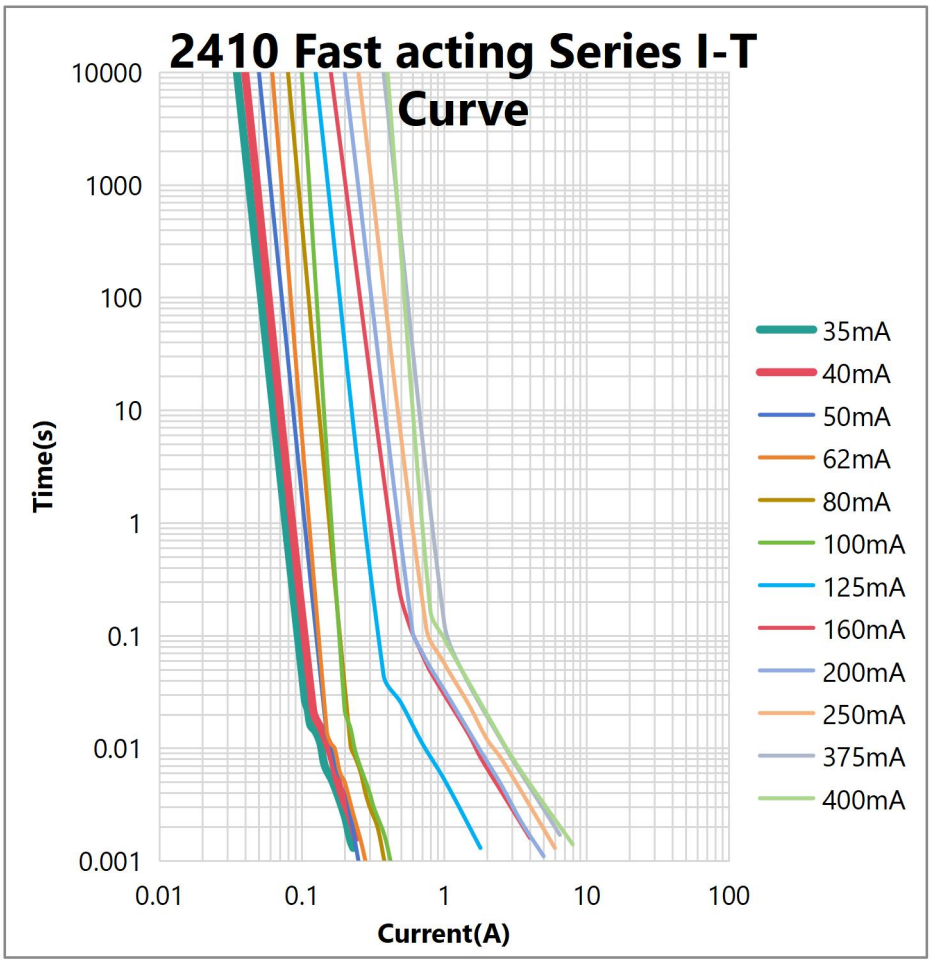
A. 所有的测试环境温度保持在 25±10°的范围内

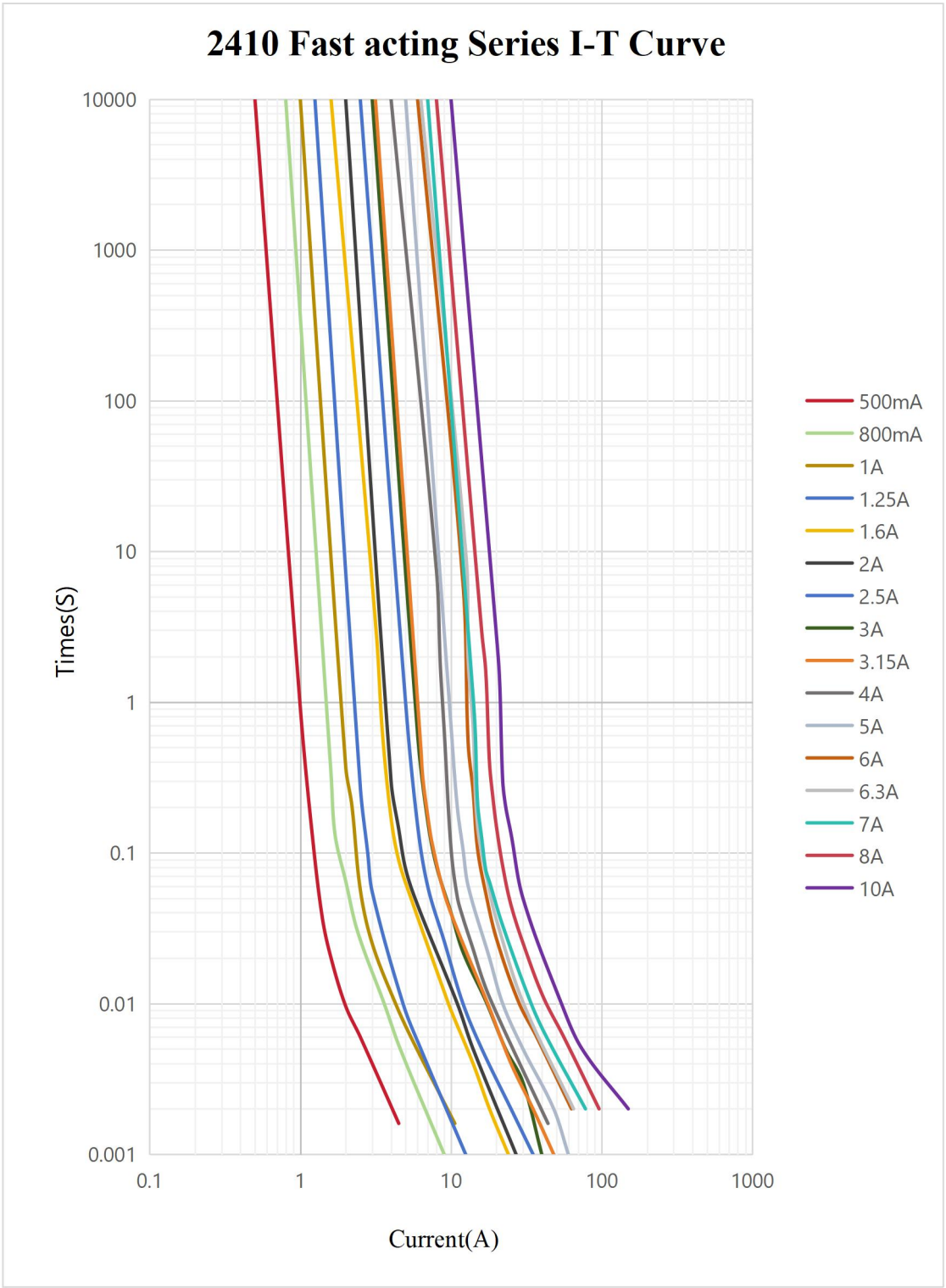
All the test environments are maintained within the temperature range of 25 ± 10 °C

B. IT 特性测试参考下表/IT Characteristic test follow up the form

额定电流的%% of Ampere Rating	50mA-250mA	315mA-30A
100%	T>4hrs	T>4hrs
200%	-	T<60s
300%	T<60s	-

C. 时间电流曲线参考图/IT time current curve





9.环境特性/ Environmental Characteristic

A. 正常操作温度范围-55℃～+125℃

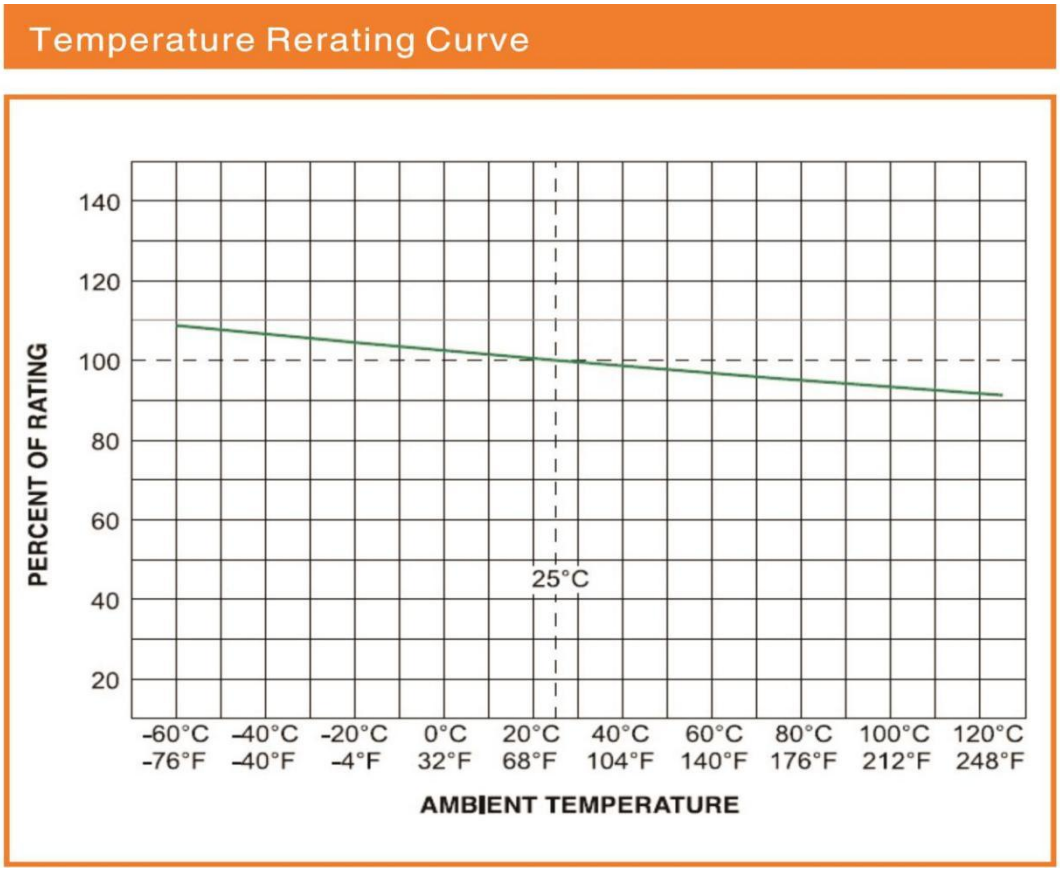
Operating temperature -55℃～+125℃ normal

B. 若工程师在设计保险丝安装的环境温度超出 25℃时，需要考虑环境温度对保险丝的寿命影响，请参考下面：

温度-电流曲线图

If the engineer finds that the ambient temperature where the fuse is installed exceeds 25℃, he/she needs to consider the influence of ambient temperature on the lifespan of the fuse. Please refer to the following:

Temperature - Current Curve Chart



C, 存储条件 / Storage Conditions

在温度+5℃~30℃、相对湿度 25%～60%的密闭条件下可存放 2 年。

Under airtight in temperature+5℃~ 30℃、relative humidity 25%～60% can store 2 years.

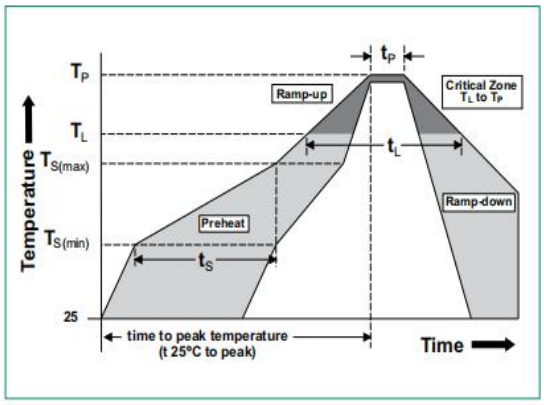
在温度+10℃~60℃、相对湿度为 95%的非露天下最多可存放 30 天。

Without dew in temperature+10℃~ 60℃、relative humidity be 95% maximum value for 30days.

D. 建议客户焊接参数

1. 建议回流焊参数 / Recommend Wave Parameters:

Reflow Condition		Pb – Free assembly
Pre Heat	-Temperature Min ($T_{s(min)}$)	150°C
	-Temperature Max ($T_{s(max)}$)	200°C
	-Time (Min to Max) (t_s)	60 – 180 secs
Average ramp up rate (Liquidus Temp (T_L) to peak		3°C/second max.
$T_{S(max)}$ to T_L - Ramp-up Rate		3°C/second max.
Reflow	-Temperature (T_L) (Liquidus)	217°C
	-Temperature (t_L)	60 – 150 seconds
Peak Temperature (T_p)		260$^{+0/-5}$ °C
Time within 5°C of actual peak Temperature (t_p)		20 – 40 seconds
Ramp-down Rate		5°C/second max.
Time 25°C to peak Temperature (T_p)		8 minutes max.
Do not exceed		260°C



2. 手工焊参数 / Hand-Solder Parameters:

烙铁温度及焊接时间 / Solder Iron Temperature: 370±10℃; Heating Time: 3s Max

烙铁避免接触铜帽 Soldering iron avoid touch Copper cap

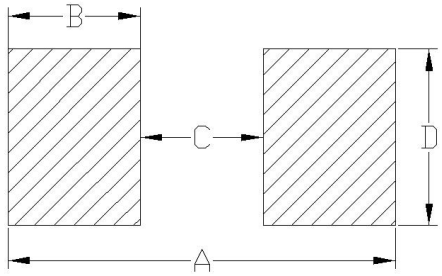
E. 信赖性测试/Reliability test

编号 No	项目 Item	内容 content
1	绝缘阻抗测试 Insulation Resistance test	100000Ω Minimal
2	可焊性测试 Solderability test	240±5℃; T=3±0.5s; Cover≧95%
3	耐焊接热测试 Soldering heat resistance test	260℃ 10s; IΔRI<10%
4	热冲击测试 Thermal shock test	100 cycles between -65℃~+125℃ 60minite; each extreme IΔRI<10%
5	高低温储存 High-low temperature storage	+125℃/-55℃ each 96 hrs; IΔRI<10%
6	高温操作 High temperature operating life	70±2℃; 0.6In;96hrs; IΔRI<10%

7	盐雾测试 Salt spray test	5% salt solution; 48hrs; IΔRI<10%
8	耐温性测试 Humidity test	T=40±2℃,90%-95%RH;1000hrs, IΔRI<10%

F. 安装建议 Installation Recommendations

建议按如下示意图安装 It is recommended to install as shown in the following diagram



A	B	C	D
8.8+0.2/-0	3.0±0.3	2.8±0.3	4.0±0.3

Unit :mm

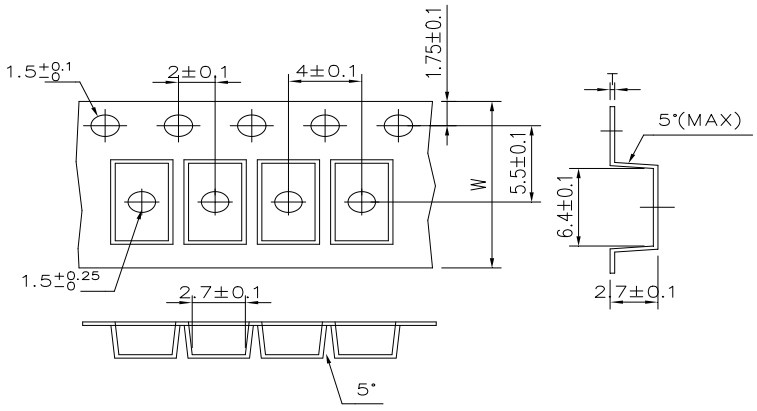
10.包装 / Packaging

1. 包装袋/盒上标签需明确产品料号，产品电压/电流及安规符号等信息;

The labels on the packaging bags/boxes should clearly indicate the product part number, product voltage/current and safety symbols, etc

2. 包装材料均符合 ROHS/REACH/HF 的环保要求， 且包装材料不会和零件发生化学反应，造成不良;

The packing material conforms to ROHS/REACH/HF environmental protection request. And the packing materials will not have the chemical reaction with the components



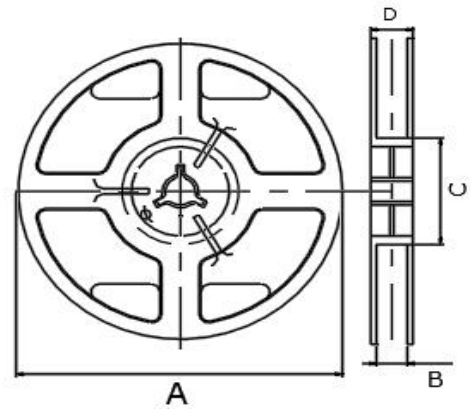
编带尺寸和数量:Tape sizq and quantity

每 1500PCS/卷;

Every 1500 PCS for 1 roll

每盒 1 卷

Each box 1 volume;



Unit:mm

A±2	B±1	C±2	D±1
178	12.5	60	14.5

11.其它/Other

1. 如果在使用中超出本规格书要求，须经双方协商确认；

   If the requirements exceed those stipulated in this specification during the usage, it shall be confirmed through consultation between both parties.

2. 如果本规格书有不适当的地方，须经过双方协商由本公司修改；

   If there is anything inappropriate in this specification, it shall be revised by our company after mutual consultation between both parties