



川磊电子科技  
ThreeLayer Technologies, Inc.  
專業電感製造商

南充新川电子科技有限公司

ThreeLayer Scientific-Technics Co.,Ltd



产品承认书

SPECIFICATION FOR APPROVAL

客户名称 -----  
*CUSTOMER NAME.*

产品类型 High Current Inductor  
*PRODUCT TYPE*

客户料号 -----  
*CUSTOMER P/N*

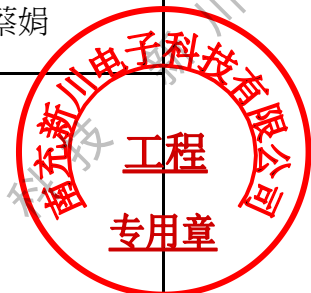
川磊料号 CLSI-131308 SERIES  
*OURS P/N*

文件编号 SP-18120104  
*FILE NO.*

客户承认/CUSTOMER ACCEPTED		
承认 <i>APPROVED</i>	确认 <i>CHECKED</i>	承办 <i>DESIGN</i>
批注/REMARK		

批准 <i>APPROVED</i>	确认 <i>CHECKED</i>	作成 <i>DESIGN</i>
程志华	董兰瑶	蔡娟

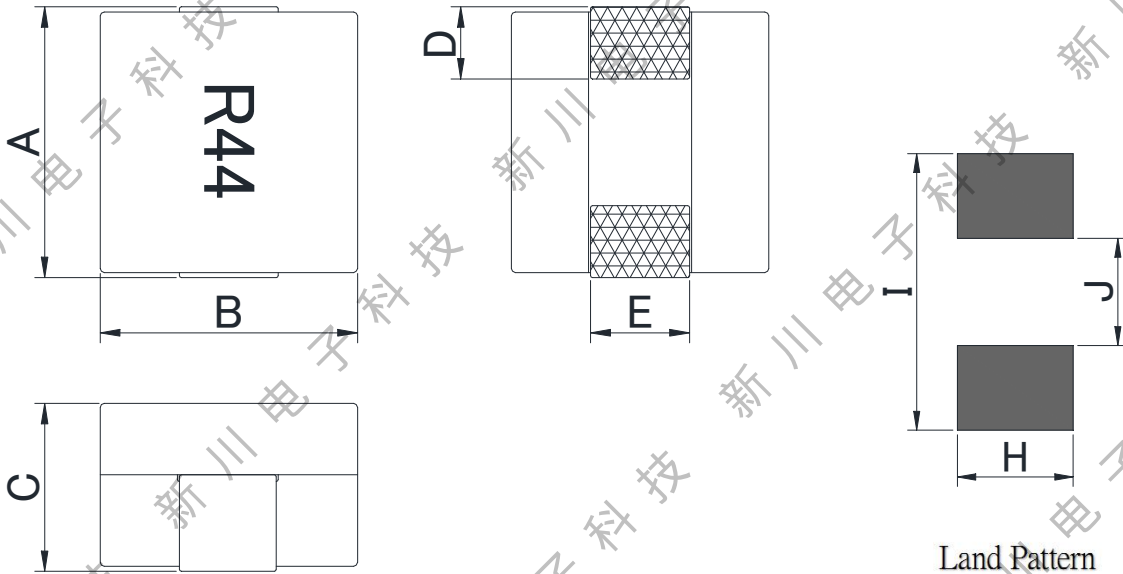
生产工厂：南充川磊电子科技有限公司  
销售公司：南充新川电子科技有限公司  
业务专线：0817-2111163/18681773184  
邮 件：threeayer\_sales@163.com  
地 址：四川省南充市顺庆区潞华工业园区华生东路





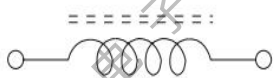
客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	-----	版别 REV.	1.1
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一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	H	I	J	
DIM	13.5	13.0	8.1	2.54	5.0	6.0	14.0	7.0	
TOLE	Max	Max	Max	Typ	Typ	Ref	Ref	Ref	

二.电路图/CIRCUIT DIAGRAM



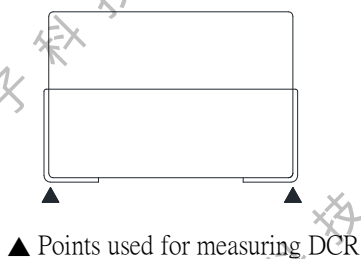
三.注意事项/NOTE :

- 1.印字 : 黑色
- 2.胶水 : 黑色

四.测试仪器/TEST INSTRUMENTS

- L : HP4284A (or equivalent)
- DCR : CHROMA 16502 (or equivalent)
- IDC : WK3325B+3265B (or equivalent)

五.直流电阻测试点/DCR TEST POINT



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六.电气特性/ELECTRICAL CHARACTERISTIC

Part Number	Inductance (uH)	Tolerance	Test Frequency(Hz)	DCR (mΩ)	IDC1 (A) Max.	IDC2 (A) Max.	MARK
CLSI-131308-R15□	0.10	M N	100K/0.1V	0.32 ±10%	78	45	R15
CLSI-131308-R21□	0.21	M N	100K/0.1V	0.32 ±10%	71	45	R21
CLSI-131308-R26□	0.26	M N	100K/0.1V	0.32 ±10%	60	45	R26
CLSI-131308-R33□	0.33	M N	100K/0.1V	0.32 ±10%	50	45	R33
CLSI-131308-R44□	0.44	M N	100K/0.1V	0.32 ±10%	35	45	R44

- (1) Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)
- (2).IDC1: Based on inductance change ( ΔL/Lo : drop 20% Typ.)@ ambient temp. 25°C
- (3).IDC2: Based on temperature rise ( ΔT : 40 °C TYP.)
- Rated DC Current :The less value which is IDC1 or IDC2 .
- (4).Operating temp.: -40°C to +125°C
- (5).Storage temp.: -20°C up to +40°C, 75% RH max.

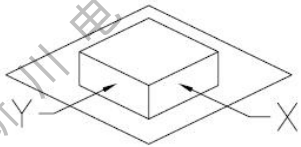
五.材料清单/MATERIAL LIST

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	CLIP	C1100 P2
3	WIRE	P180 G1
4	ADHESIVE	5890LC
5	INK	BLACK

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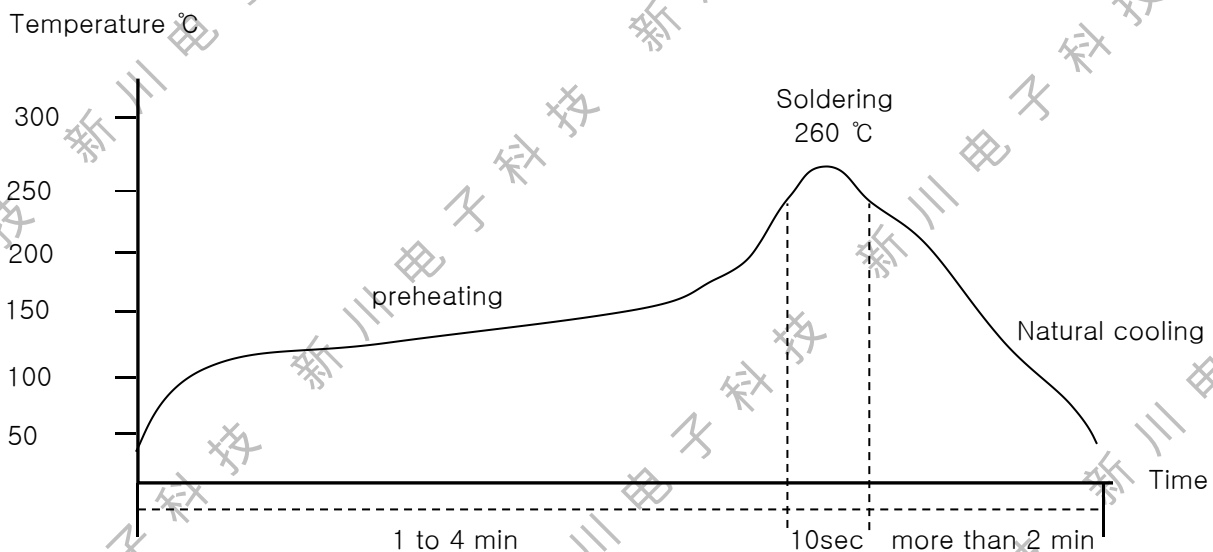
七.可靠性测试/RELIABILITY TESTING

Operating Temperature	- 40 to +125 °C ( Contain Heating coil )
Appearance Inspection	No external defects by visual inspection
Terminal Strength	After soldering , between copper plaet and terminals of coils , push in two directions of X , Y with standing 10N(1.02kg) for10+/-2 sec. Terminal should not peel off. (Refer to figure at right )
Heat endurance of reflow soldering	Refer to figure
Insulating resistance	Over 100 MΩ at 100V D.C . between wire and core
Dielectric Strength	Apply at 0.5KV 3mA for 1 minute between wire and core
Temperature characteristics	Inductance coefficient ( 0~2,000 ) × 10 / °C ( - 40~ + 125 °C )
Humidity characteristics	Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 °C and 1 hours drying under normal condition



A test is made under the above mentioned condition , and it is kept for 2 hours in the normal

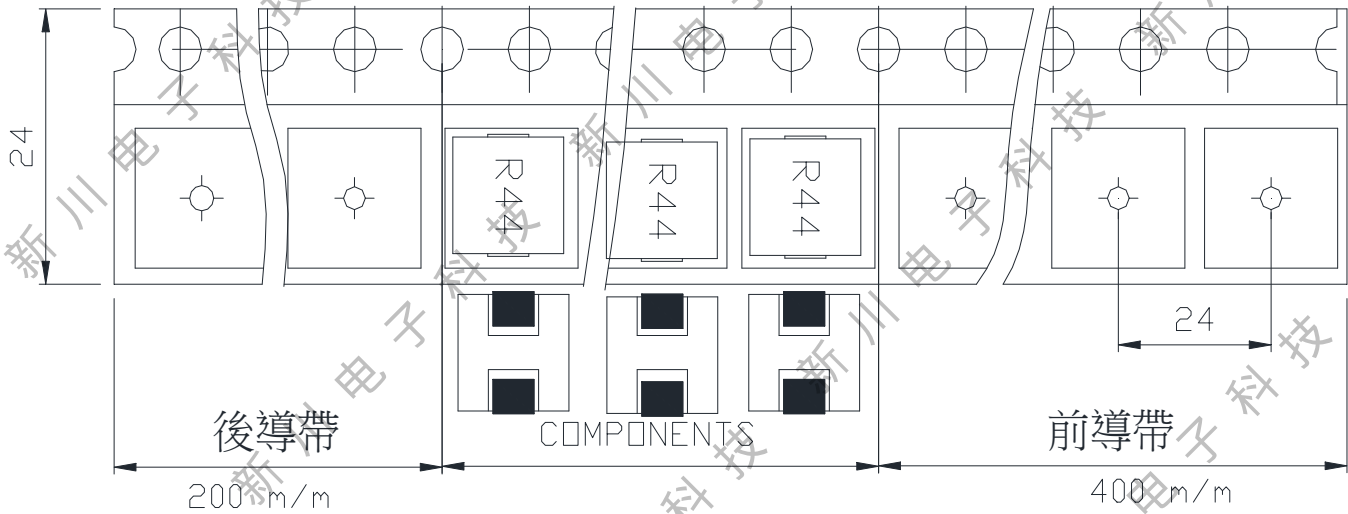
IR Reflow profile



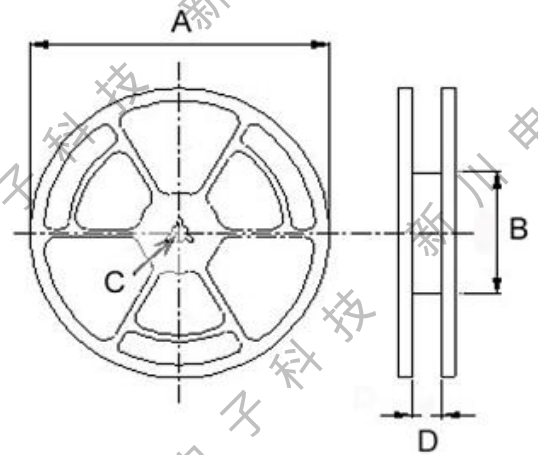
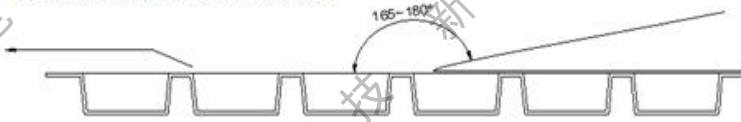
Temperature and humidity . After that , no mechanical and electrical defect should be found .

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八. 编带规格/TAPING SPECIFICATIONS

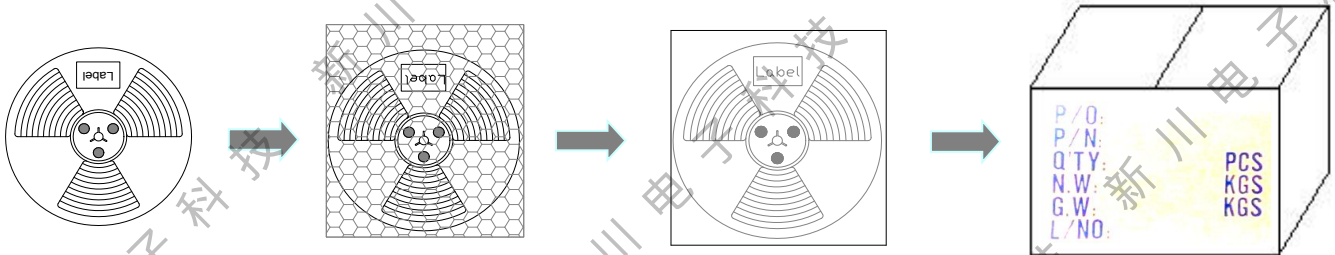


Adhesive strength of cover tape is 20 to 120 gf  
The conduction band direction



Reel Dimensions (Unit: mm)				Quantity
A	B	C	D	Pcs/Reel
330	100	13	24.5	350

九. 包装方式/PACKING LIST



轮盘：13(直径330mm)  
数量：350PCS/盘

PE袋  
数量：350PCS/袋

内盒  
数量：700PCS/盒

外箱，数量：3500PCS/箱  
不足整箱用内盒或填充物  
装满