



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-100808 SERIES  
OURS P/N

文件编号 SP-18120103  
FILE NO.

客户承认/CUSTOMER ACCEPTED

承认 APPROVED	确认 CHECKED	承办 DESIGN

批注/REMARK

批准 APPROVED	确认 CHECKED	作成 DESIGN
程志华	陈尧	潘立

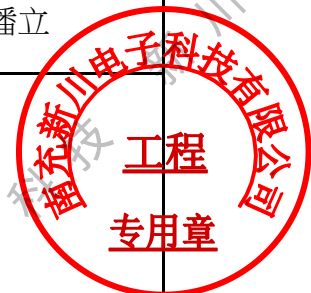
生产工厂：南充川磊电子科技有限公司

销售公司：南充新川电子科技有限公司

业务专线：0817-2111163/18681773184

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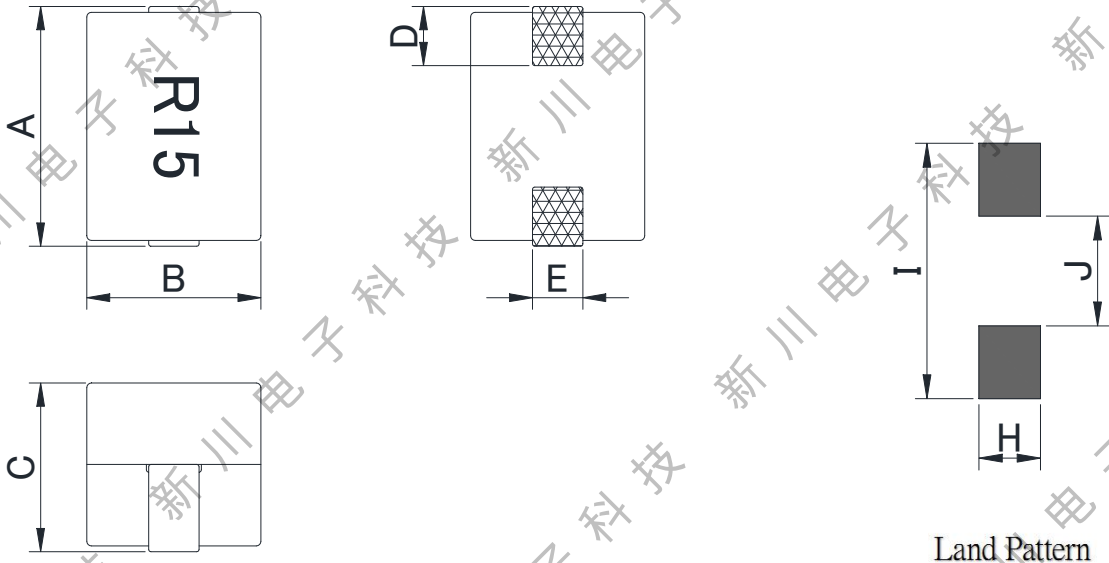
地 址：四川省南充市顺庆区潞华工业园区华生东路





客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	-----	版别 REV.	1.2
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一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	H	I	J	
DIM	10.3	7.6	7.2	2.54	2.21	2.8	11.3	4.6	
TOLE	±0.3	±0.3	±0.3	Typ	Typ	Ref	Ref	Ref	

二.电路图/CIRCUIT DIAGRAM



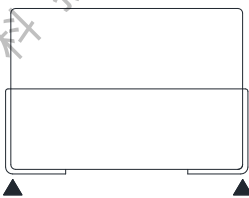
三.注意事项/NOTE :

- 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



▲ Points used for measuring DCR

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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-100808-R12□	0.115	L M	100K/0.1V	0.29 ±10%	78	41	R12
CLSI-100808-R15□	0.150	K L M	100K/0.1V	0.29 ±10%	72	41	R15
CLSI-100808-R18□	0.175	L M	100K/0.1V	0.29 ±10%	62	41	R18
CLSI-100808-R21□	0.215	L M	100K/0.1V	0.29 ±10%	48	41	R21
CLSI-100808-R23□	0.23	L M	100K/0.1V	0.29 ±10%	43	41	R23
CLSI-100808-R27□	0.27	L M	100K/0.1V	0.29 ±10%	37	41	R27
CLSI-100808-R30□	0.30	L M	100K/0.1V	0.29 ±10%	32	41	R30

(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

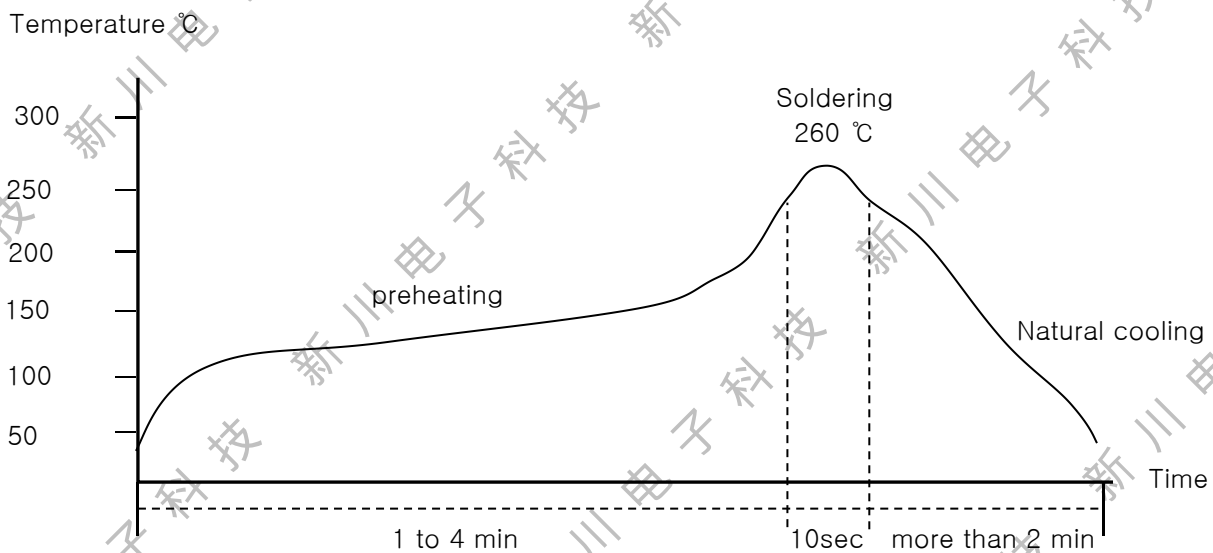
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七.可靠性测试/RELIABILITY TESTING

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

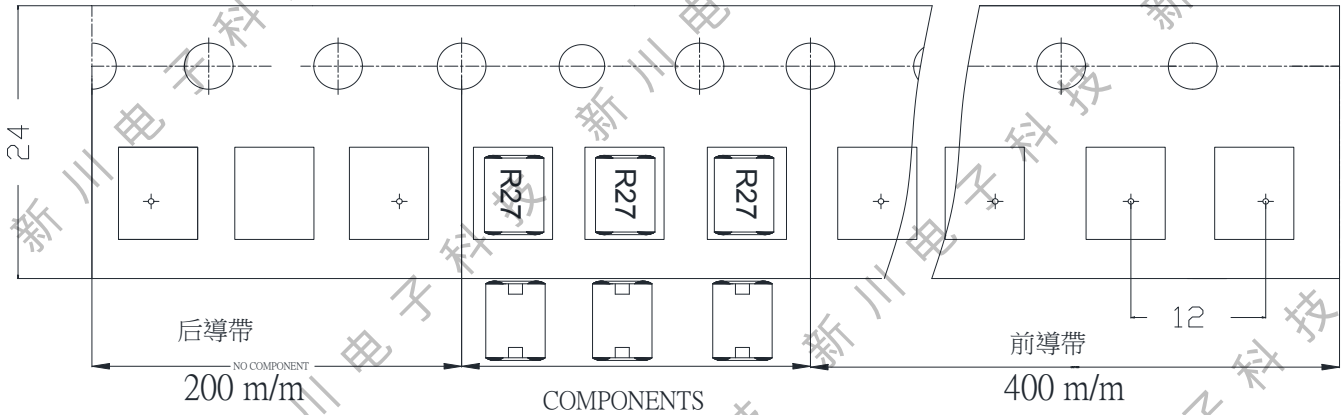
IR Reflow profile



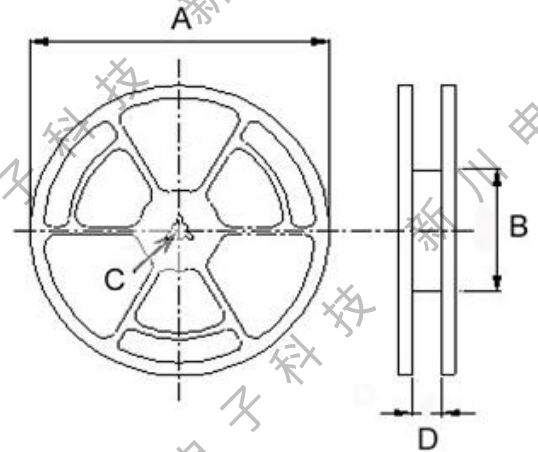
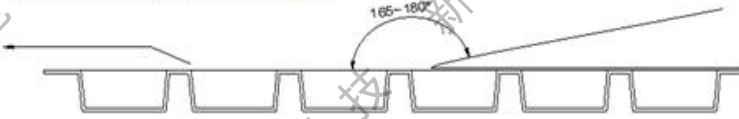
Temperature and humidity . After that , no mechanical and electrical defect should be found .

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八. 编带规格/TAPING SPECIFICATIONS

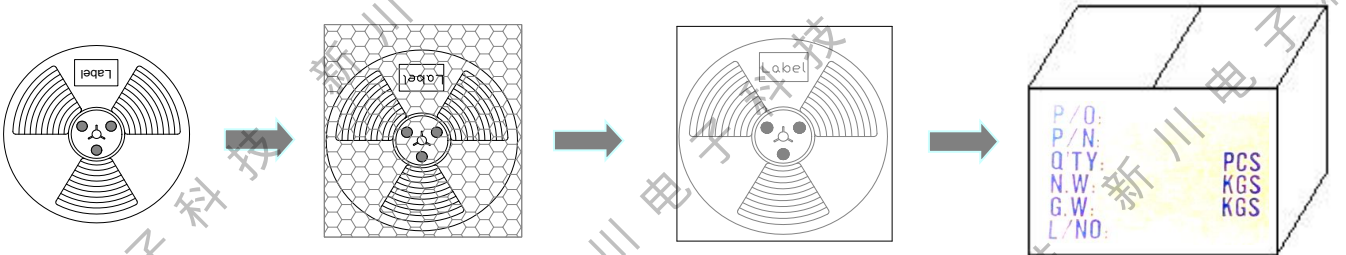


Adhesive strength of cover tape is 20 to 120 gf  
The conduction band direction



Reel Dimensions (Unit: mm)				Quantity
A	B	C	D	Pcs/Reel
330	100	13	24.5	700

九. 包装方式/PACKING LIST



轮盘：13(直径330mm)  
数量：500PCS/盘

PE袋  
数量：500PCS/袋

内盒  
数量：1000PCS/盒

外箱，数量：5000PCS/箱  
不足整箱用内盒或填充物装满