



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-121006 SERIES  
*OURS P/N*

文件编号 SP-21070611  
*FILE NO.*

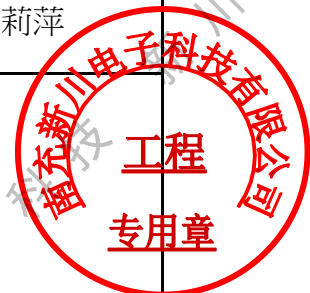
客户承认/CUSTOMER ACCEPTED

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	陈丽雨	张莉萍

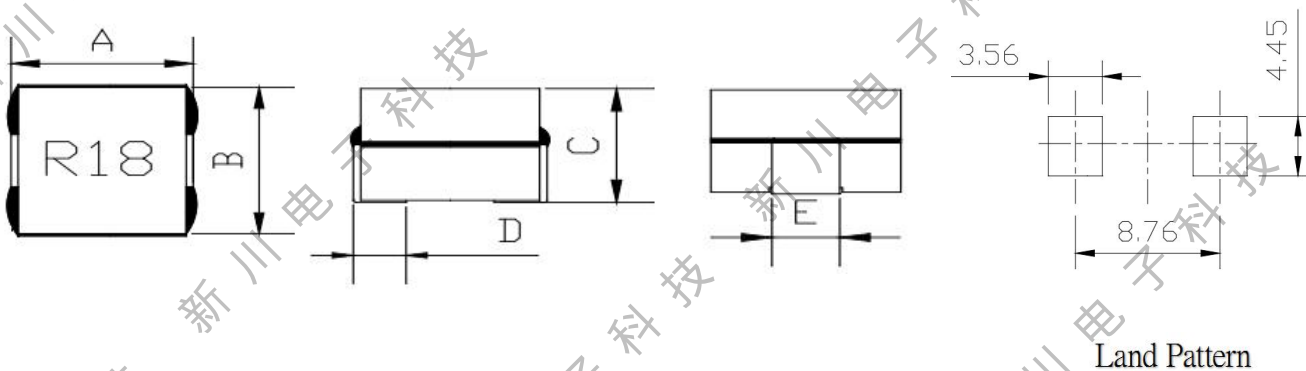
生产工厂：南充川磊电子科技有限公司  
销售公司：南充新川电子科技有限公司  
业务专线：0817-2111163/18681773184  
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客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	-----	版别 REV.	1.0
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一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	H	I	J
DIM	12.1	10.0	6.0	2.54	3.94			
TOLE	Max	Max	Max	±0.25	±0.25			

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-121006-R18□	0.18	L M	100K/0.1V	0.48 ±6.5%	55	36	R18
CLSI-121006-R23□	0.23	M N	100K/0.1V	0.48 ±6.5%	47	36	R23
CLSI-121006-R36□	0.36	M N	100K/0.1V	0.48 ±6.5%	30	36	R36

- (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.

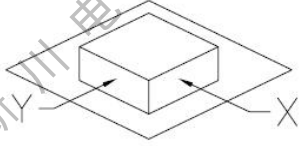
五.材料清单/MATERIAL LIST

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

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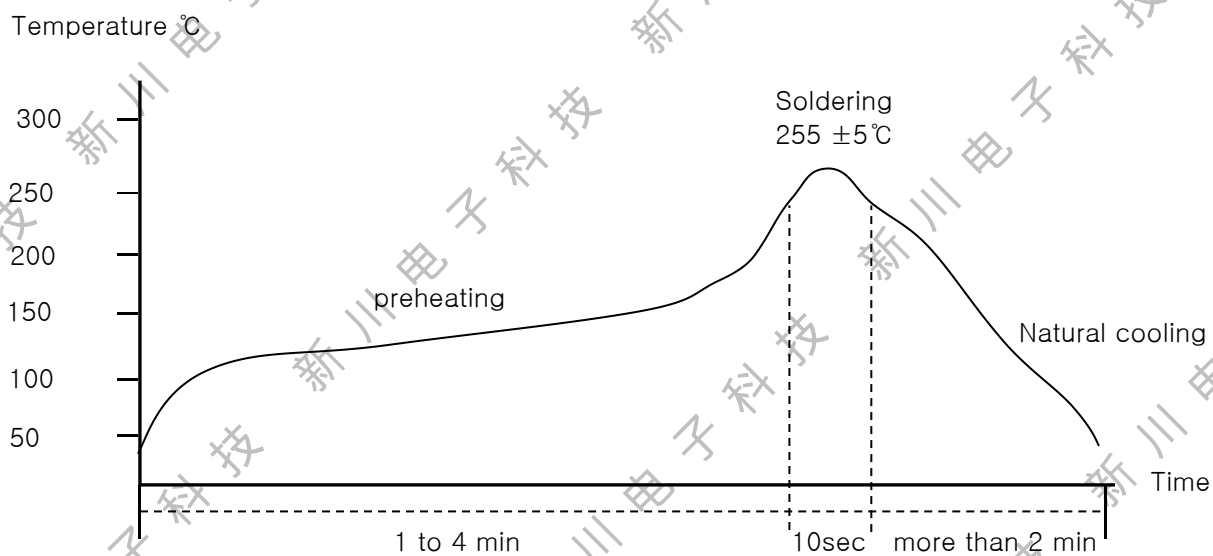
七.可靠性测试/RELIABILITY TESTING

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

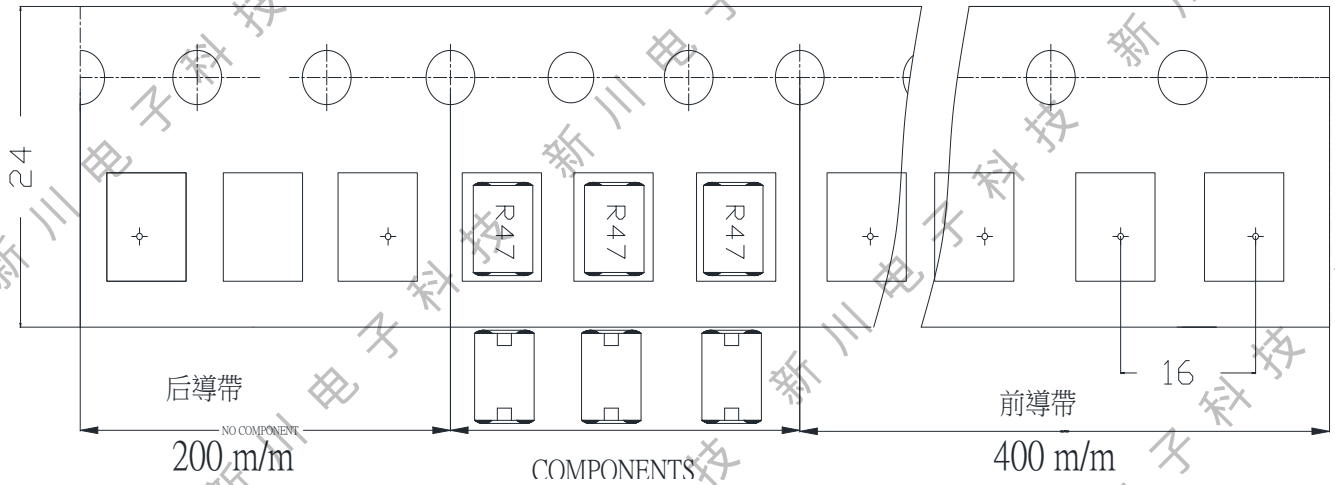
IR Reflow profile



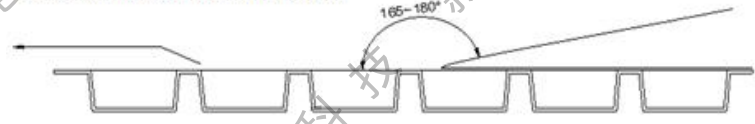
Temperature and humidity . After that , no mechanical and electrical defect should be found .

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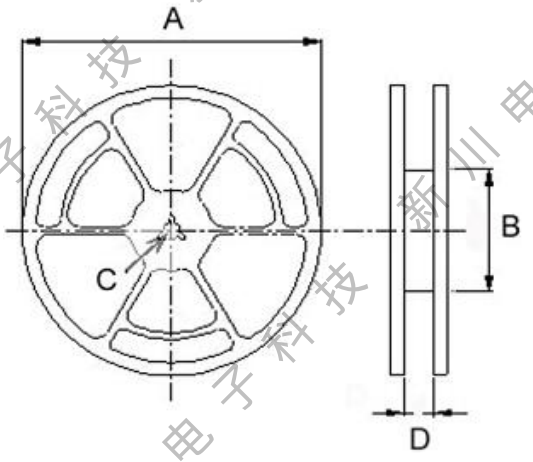
八. 编带规格/TAPING SPECIFICATIONS



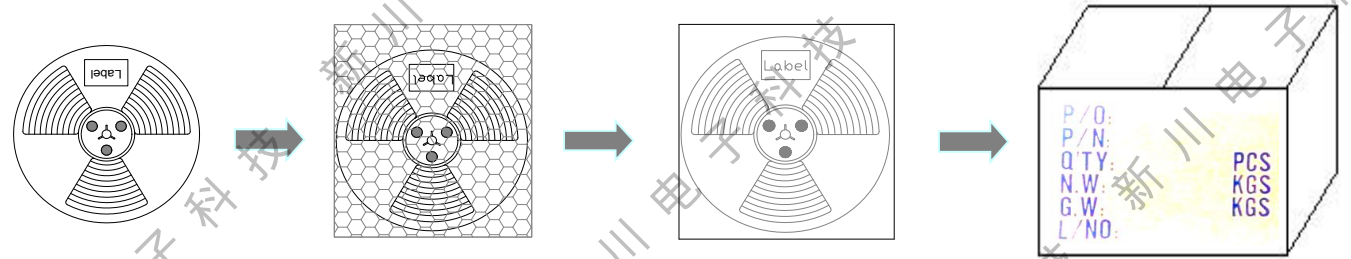
Adhesive strength of cover tape is 20 to 120 gf  
The conduction band direction



Reel Dimensions (Unit: mm)				Quantity
A	B	C	D	Pcs/Reel
330	100	13	24.5	500



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