



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

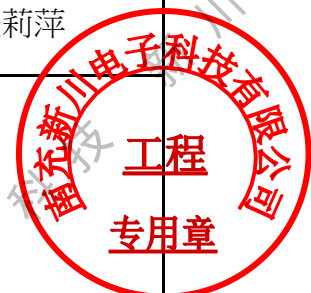
SPECIFICATION FOR APPROVAL

客户名称 <i>CUSTOMER NAME</i>	-----
产品类型 <i>PRODUCT TYPE</i>	High Current Inductor
客户料号 <i>CUSTOMER P/N</i>	-----
川磊料号 <i>OURS P/N</i>	CLSI-111109 SERIES
文件编号 <i>FILE NO.</i>	SP-20090102

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

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
 邮 件：three_layer_sales@163.com
 地 址：四川省南充市顺庆区潞华工业园区华生东路

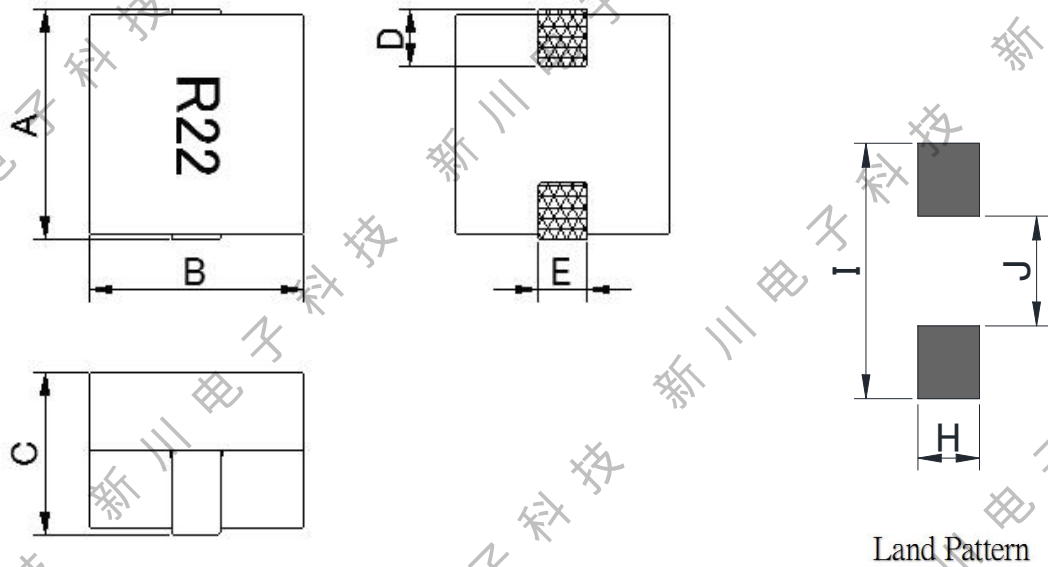


承认书/SPECIFICATION FOR APPROVAL

客户名称 CUSTOMER	-----	客户产品名 CUSTOMER P/N	-----	版别 REV.	1.0
产品类型 PRODUCT TYPE	High Current Inductor	新川品名 OURS P/N	CLSI-111109 SERIES	文件编号 FILE NO.	SP-2009Q102
修改记录/MODIFY RECORDS					
版别 REV.	日期 DATE	修改内容 MODIFY CONTENT	拟制 DRAWING	审核 CHECKED	批准 APPROVED
1.0	2020/9/1	新发行	张莉萍	陈丽丽	程志华

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	11.2	11.2	9.0	2.54	2.03	2.8	11.3	4.6	
TOLE	Max	Max	Max	Typ	Typ	Ref	Ref	Ref	

二.电路图/CIRCUIT DIAGRAM



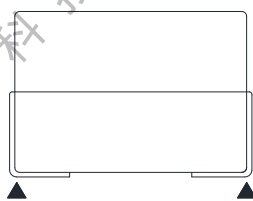
三.注意事项/NOTE :

- 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



▲ 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-111109-R22□	0.225	M N	100K/0.1V	0.63 ±9.5%	68	35	R22
CLSI-111109-R27□	0.27	M N	100K/0.1V	0.63 ±9.5%	50	35	R27
CLSI-111109-R33□	0.325	M N	100K/0.1V	0.63 ±9.5%	43	35	R33
CLSI-111109-R47□	0.47	M N	100K/0.1V	0.63 ±9.5%	30	35	R47

- (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.

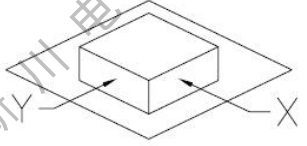
五.材料清单/MATERIAL LIST

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

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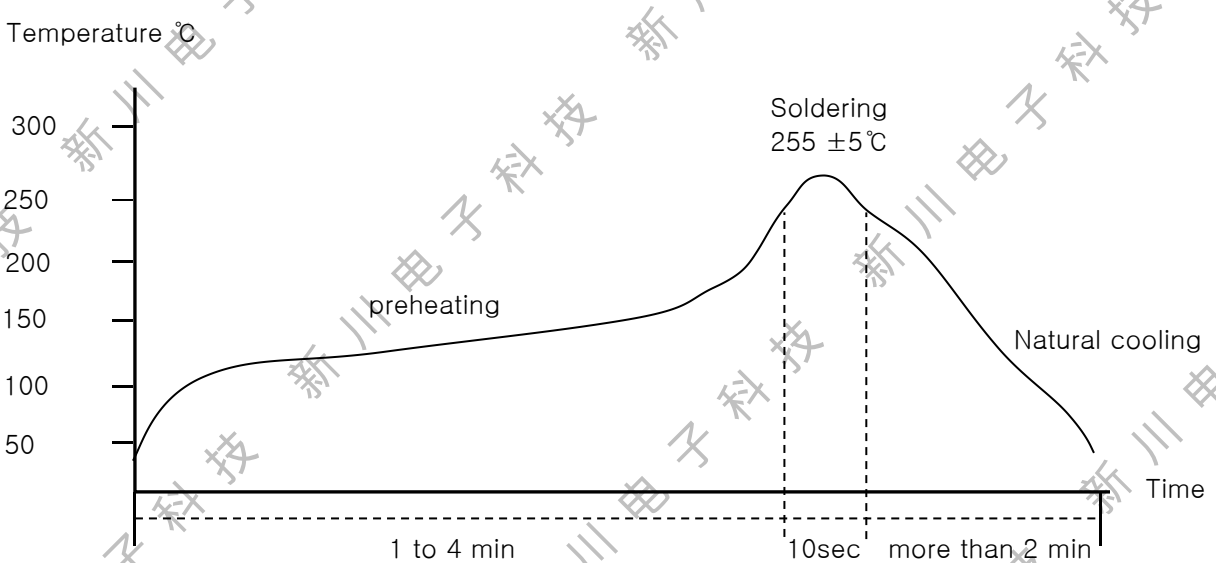
七.可靠性测试/RELIABILITY TESTING

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

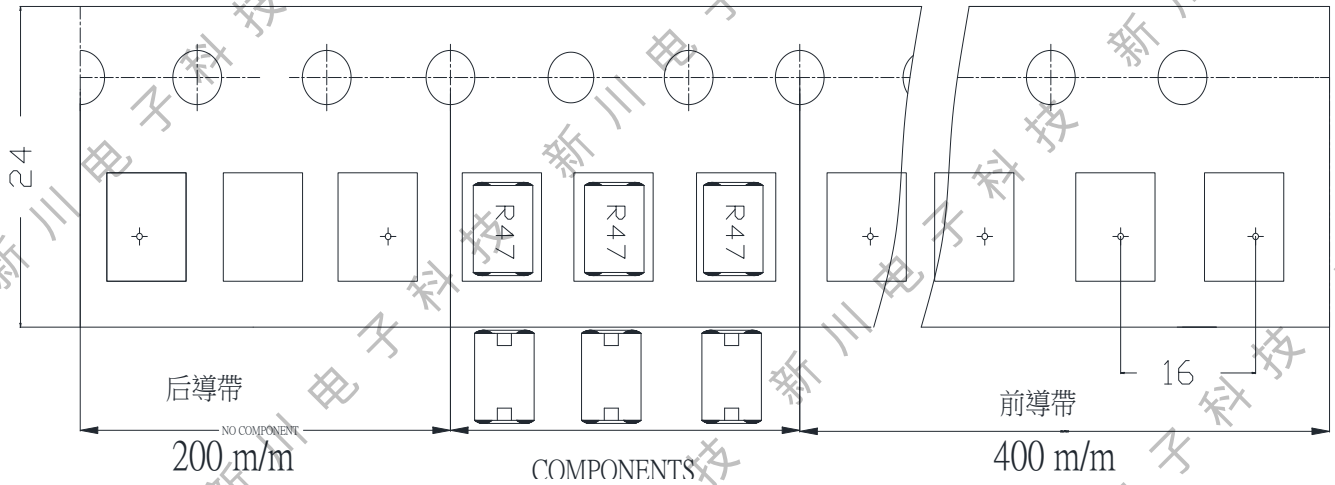
IR Reflow profile



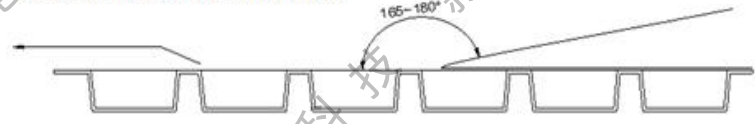
Temperature and humidity . After that , no mechanical and electrical defect should be found .

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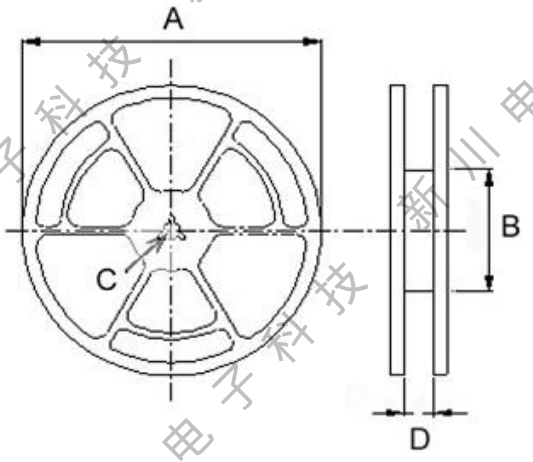
八. 编带规格/TAPING SPECIFICATIONS



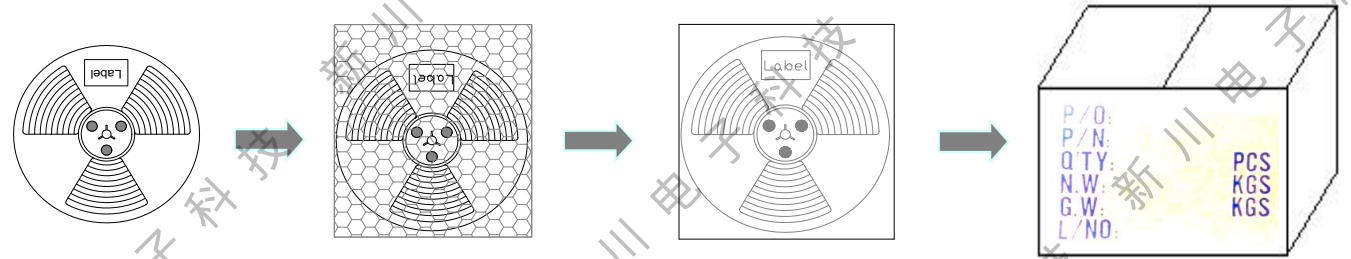
Adhesive strength of cover tape is 20 to 120 gf
The conduction band direction



Reel Dimensions (Unit: mm)				Quantity
A	B	C	D	Pcs/Reel
330	100	13	24.5	300



九. 包装方式/PACKING LIST



轮盘：13(直径330mm)
数量：300PCS/盘

PE袋
数量：300PCS/袋

内盒
数量：600PCS/盒

外箱，数量：3000PCS/箱
不足整箱用内盒或填充物装满