



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

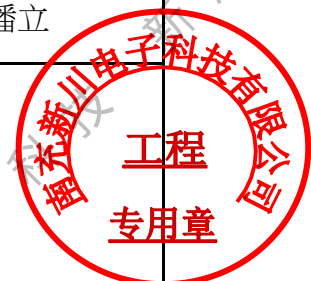
SPECIFICATION FOR APPROVAL

客户名称 <i>CUSTOMER NAME.</i>	----
产品类型 <i>PRODUCT TYPE</i>	Shielded Power Inductors
客户料号 <i>CUSTOMER PN</i>	----
川磊料号 <i>OURS PN</i>	CDRI-104A- SERIES
文件编号 <i>FILE NO.</i>	SP-21070612

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>		

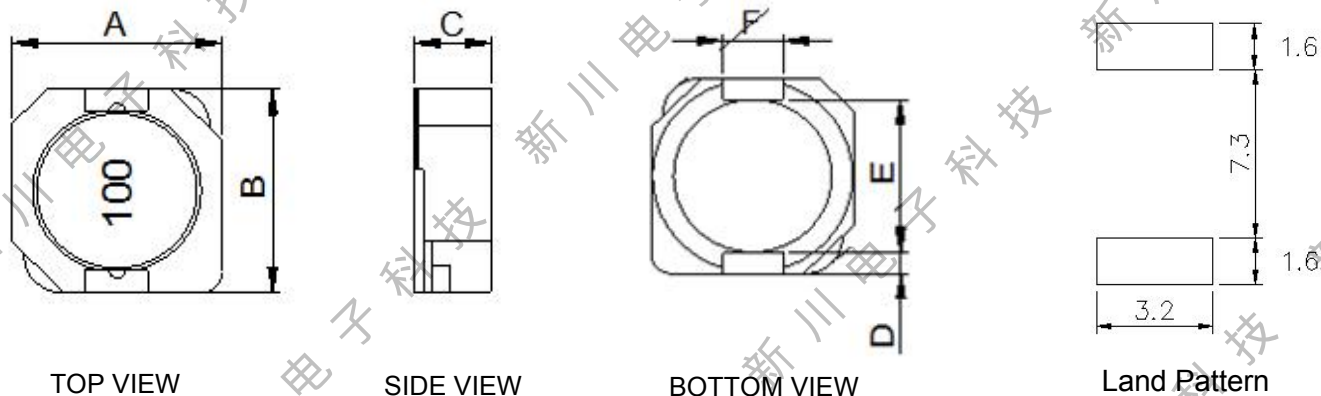
批准 <i>APPROVED</i>	确认 <i>CHECKED</i>	作成 <i>DESIGN</i>
程志华	陈尧	潘立

生产工厂：南充川磊电子科技有限公司
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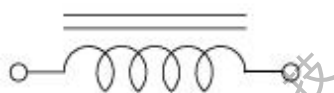
客户名称 CUSTOMER	---	客户品名 CUSTOMER P/N	---	版别 REV.	1.0
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一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	F		
DIM	10.1	10.3	4.5	1.2	7.7	3.0		
TOLE	±0.5	±0.5	Max	TYP	TYP	TYP		

二.电路图/CIRCUIT DIAGRAM



三.注意事项/NOTE :

1.印字：黑色

四.电气特性/ELECTRICAL CHARACTERISTIC

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR (mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
CDRI-104A-1R5□	1.5	N	100K/1V	6.5	15	12	1R5
CDRI-104A-1R8□	1.8	N	100K/1V	7.6	10.4	9.5	1R8
CDRI-104A-2R2□	2.2	N	100K/1V	7.2	10.4	8.2	2R2
CDRI-104A-3R3□	3.3	N	100K/1V	10.3	8.0	7.2	3R3
CDRI-104A-4R7□	4.7	M N	100K/1V	12	6.5	6.5	4R7
CDRI-104A-5R6□	5.6	M N	100K/1V	24	5.5	---	5R6
CDRI-104A-6R8□	6.8	M N	100K/1V	27	5.0	5.1	6R8
CDRI-104A-100□	10	M N	100K/1V	35	4.5	3.8	100
CDRI-104A-150□	15	M N	100K/1V	45	4.15	3.5	150
CDRI-104A-220□	22	M N	100K/1V	66	4.0	2.8	220
CDRI-104A-330□	33	M N	100K/1V	101	3.5	2.3	330

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四.电气特性/ELECTRICAL CHARACTERISTIC

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR (mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
CDRI-104A-470□	47	M N	100K/1V	170	2.8	2.0	470
CDRI-104A-560□	56	M N	100K/1V	200	2.3	1.90	560
CDRI-104A-101□	100	K M	100K/1V	280	1.7	1.70	101
CDRI-104A-151□	150	K M	100K/1V	400	1.4	1.40	151

- (1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)
- (2).IDC1:Base on temp.rise & $\Delta L/L0A \leq 35\%$ MAX
- (3).IDC2:Temp.rise 45°C Typ
- (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	WIRE	P180 Grd1
3	CLIP	C1100 P2
4	SOLDER	Sn99.3:Cu0.7
5	ADHESIVE	G-500HF
		FW-6013
6	INK	BLACK

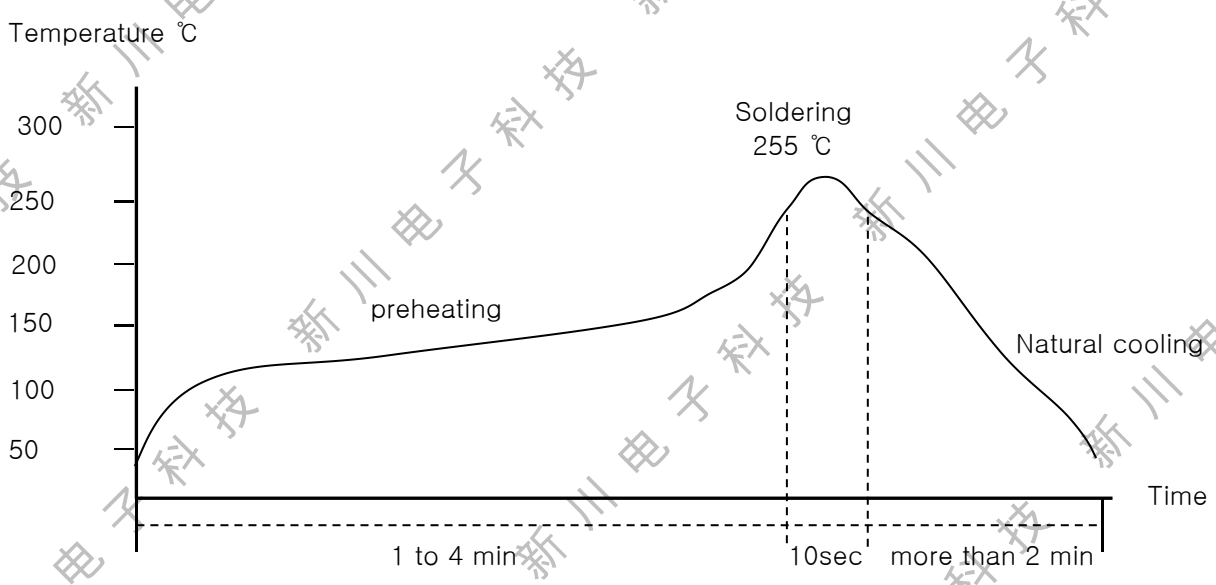
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六.可靠性测试/RELIABILITY TESTING

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

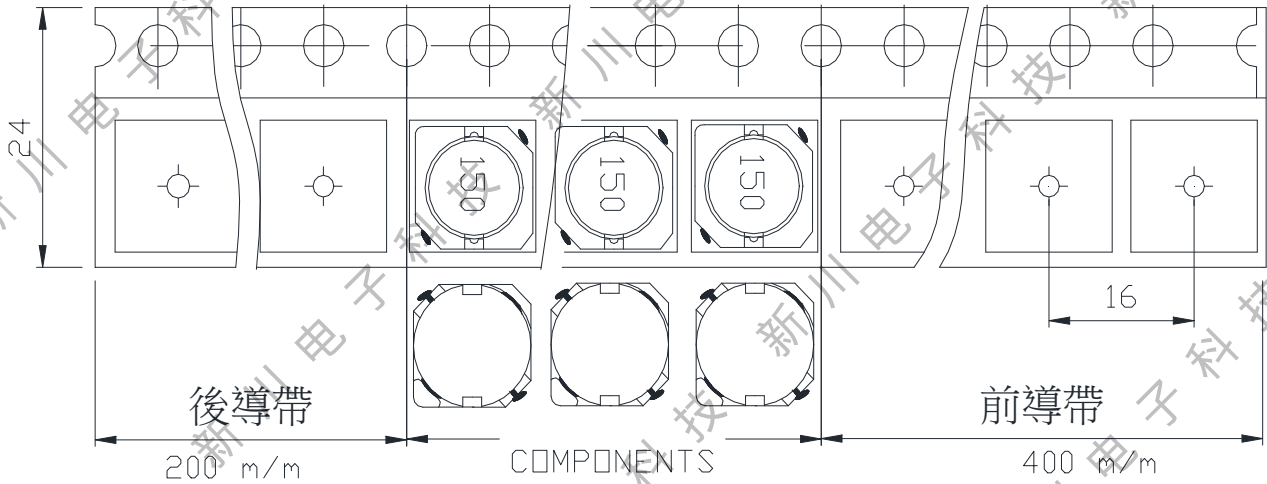
IR Reflow profile



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

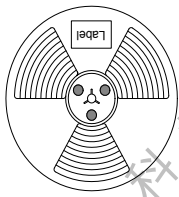
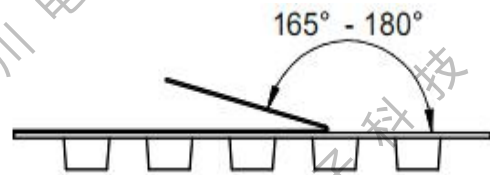
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七.包装方式/PACKING LIST

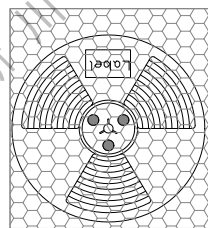


Transparent carrier and cover tape/透明载带和自粘上带

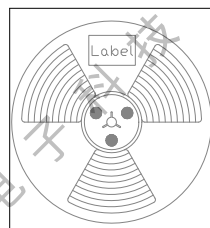
Tape width	Distance	Pull-of force
24 mm	16 mm	20~100g



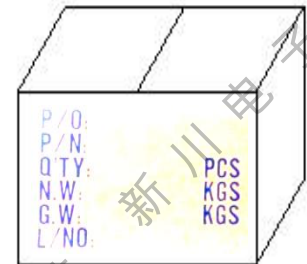
轮盘：13'(直径330mm)
数量：900PCS/盘



PE袋
数量：900PCS/袋



内盒
数量：1800PCS/盒



外箱，数量：9000PCS/箱
不足整箱用内盒或填充物
装满