



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

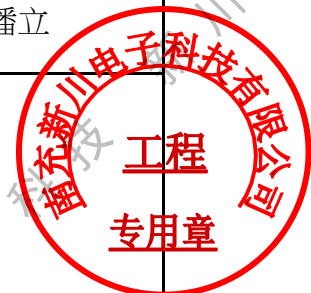
SPECIFICATION FOR APPROVAL

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 P/N</i>	----
川磊料号 <i>OURS P/N</i>	CDRI-103R- SERIES
文件编号 <i>FILE NO.</i>	SP-21072117

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

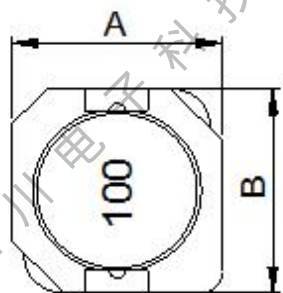
批准 <i>APPROVED</i>	确认 <i>CHECKED</i>	作成 <i>DESIGN</i>
程志华	陈尧	潘立

生产工厂：南充川磊电子科技有限公司
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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

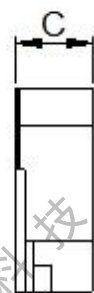


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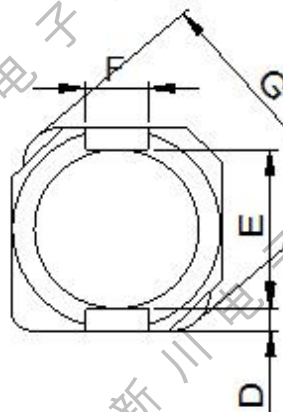
一.尺寸图/DIMENSION (单位/UNIT : mm)



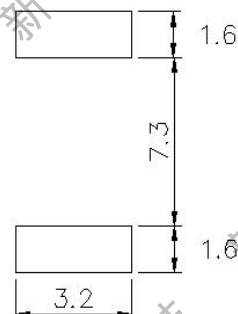
TOP VIEW



SIDE VIEW



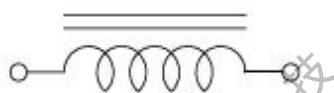
BOTTOM VIEW



Land Pattern

ITEM	A	B	C	D	E	F	G		
DIM	10.1	10.3	2.8	1.2	7.7	3.0	13.5		
TOLE	±0.3	±0.3	±0.3	TYP	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-103R-1R5□	1.5	N	100K/1V	11	8	5.8	1R5
CDRI-103R-2R2□	2.2	N	100K/1V	16.9	6.7	5.1	2R2
CDRI-103R-3R3□	3.3	N	100K/1V	21	5.56	4.7	3R3
CDRI-103R-4R7□	4.7	N	100K/1V	30	4.65	4.0	4R7
CDRI-103R-6R8□	6.8	N	100K/1V	35	3.84	3.6	6R8
CDRI-103R-8R2□	8.2	N	100K/1V	50	3.54	3.0	8R2
CDRI-103R-100□	10	M N	100K/1V	59	3.18	2.8	100
CDRI-103R-150□	15	M N	100K/1V	91	2.6	2.05	150
CDRI-103R-220□	22	M N	100K/1V	143	2.16	1.60	220
CDRI-103R-270□	27	M N	100K/1V	180	1.8	1.40	270
CDRI-103R-330□	33	M N	100K/1V	201	1.74	1.35	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-105R-470□	47	M N	100K/1V	299	1.43	1.20	470
CDRI-105R-560□	56	M N	100K/1V	325	1.36	1.15	560
CDRI-105R-680□	68	M N	100K/1V	429	1.22	0.95	680
CDRI-105R-820□	82	M N	100K/1V	494	1.14	0.80	820
CDRI-105R-101□	100	K M	100K/1V	683	1.02	0.70	101
CDRI-105R-121□	120	K M	100K/1V	754	0.89	0.65	121
CDRI-105R-151□	150	K M	100K/1V	871	0.84	0.51	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.

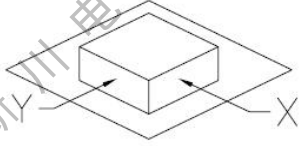
五.材料清单/MATERIAL LIST

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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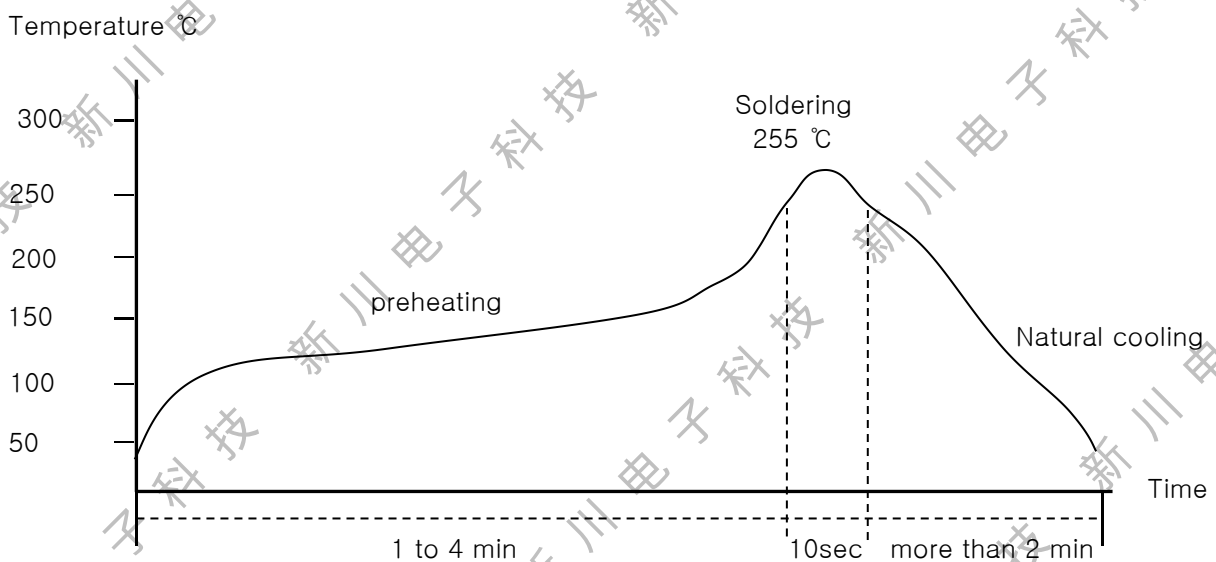
六.可靠性测试/RELIABILITY TESTING

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

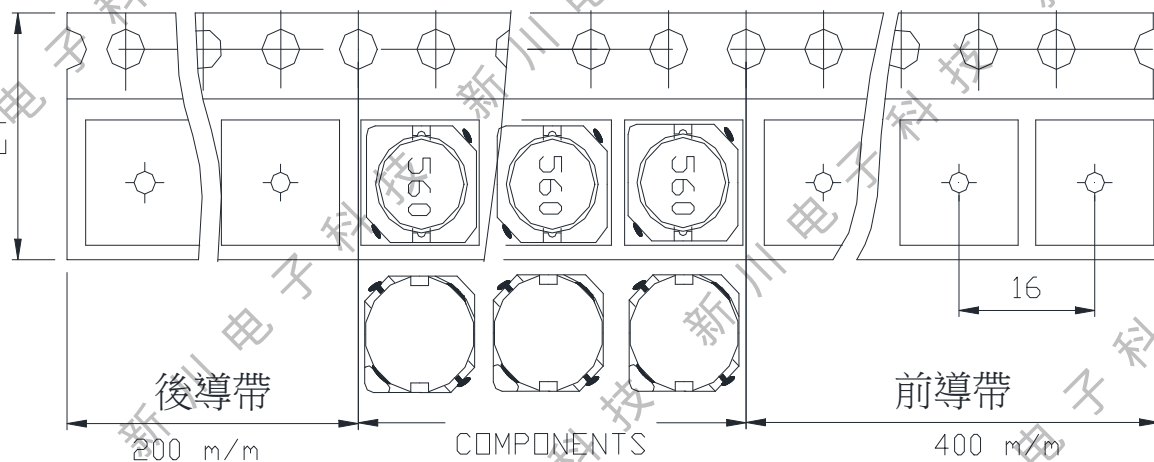
IR Reflow profile



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

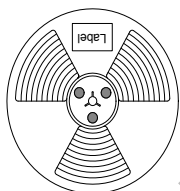
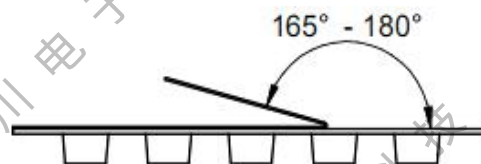
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七.包装方式/PACKING LIST

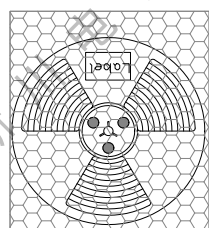


Transparent carrier and cover tape/透明载带和自粘上带

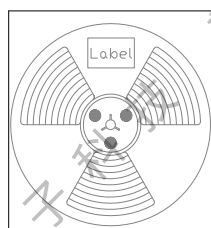
Tape width	Distance	Pull-of force
24 mm	16 mm	20~100g



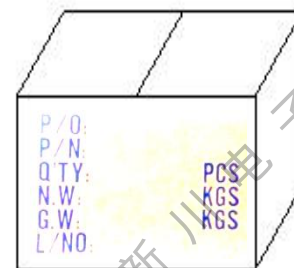
轮盘：13'(直径330mm)
数量：1000PCS/盘



PE袋
数量：1000PCS/袋



内盒
数量：2000PCS/
盒



外箱，数量：10000PCS/箱
不足整箱用内盒或填充物
装满