



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-7045AL- SERIES
文件编号 <i>FILE NO.</i>	SP-21072116

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	董兰瑶	蔡娟

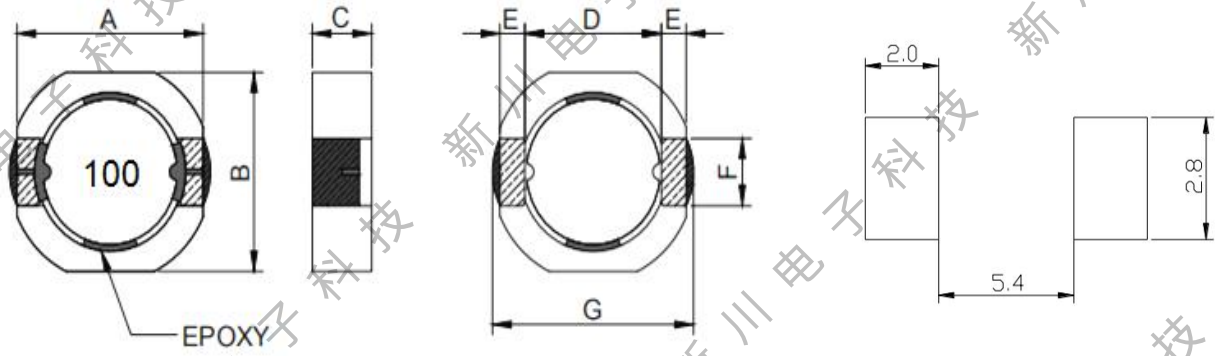
生产工厂：南充川磊电子科技有限公司
销售公司：南充新川电子科技有限公司
业务专线：0817-2111163/18681773184
邮 件：threelayer_sales@163.com
地 址：四川省南充市顺庆区潞华工业园区华生东路



承认书/SPECIFICATION FOR APPROVAL

客户名称 CUSTOER	-----	客户品名 CUSTOMER P/N	-----	版别 REV.	1.0
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一.尺寸图/DIENSION (单位/UNIT :)

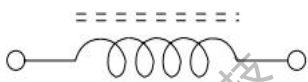


Product size

Pad Layout

ITEM	A	B	C	D	E	F	G		
DIM	7.5	7.5	4.5	5.6	1.0	2.5	9.5		
TOLE	±0.5	±0.5	Max	Typ	Typ	Typ	Max		

二.电路图/CIRCUIT DIAGRA



三.注意事项/NOTE :

1.印字：白色

四.电气特性/ELECTRICAL CHARACTERISTIC

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR (mΩ) ±20%	IDC1 (A) Max.	IDC2 (A) Max.	MARK
CDRI-7045AL-1R5□	1.5	N	100K/0.1V	6.50	9.00	8.00	1R5
CDRI-7045AL-2R2□	2.2	N	100K/0.1V	8.63	7.30	6.50	2R2
CDRI-7045AL-3R3□	3.3	N	100K/0.1V	10.24	5.80	5.50	3R3
CDRI-7045AL-4R7□	4.7	M, N	100K/0.1V	14.50	5.20	5.40	4R7
CDRI-7045AL-6R8□	6.8	M, N	100K/0.1V	19.20	4.00	4.38	6R8
CDRI-7045AL-100□	10	M, N	100K/0.1V	28.94	3.50	3.50	100
CDRI-7045AL-180□	18	M, N	100K/0.1V	51.43	2.70	2.80	180
CDRI-7045AL-220□	22	M, N	100K/0.1V	54.32	2.40	2.60	220
CDRI-7045AL-330□	33	M, N	100K/0.1V	82.48	2.10	2.00	330
CDRI-7045AL-470□	47	M, N	100K/0.1V	110.0	1.60	1.80	470

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四.电气特性/ELECTRICAL CHARACTERISTIC

Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR (mΩ) ±20%	IDC1 (A) Max.	IDC2 (A) Max.	MARK
CDRI-7045AL-680□	68	M, N	100K/0.1V	165	1.40	1.40	680
CDRI-7045AL-101□	100	M, N	100K/0.1V	330	1.20	1.10	101
CDRI-7045AL-221□	220	M, N	100K/0.1V	800	0.80	0.70	221
CDRI-7045AL-331□	330	M, N	100K/0.1V	1130	0.70	0.55	331

- (1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)
- (2).IDC1:Base on temp.rise & ΔL/L0A ≤ 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.

※:Rated DC Current : The less value which is IDC1 or IDC2

五.材料清单/MATERIAL LIST

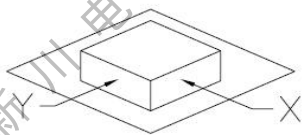
NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	BASE	C1100H
3	WIRE	P180 Grd1
4	SOLDER	107H
5	ADHESIVE	G500HF+FW5013
6	INK	WHITE

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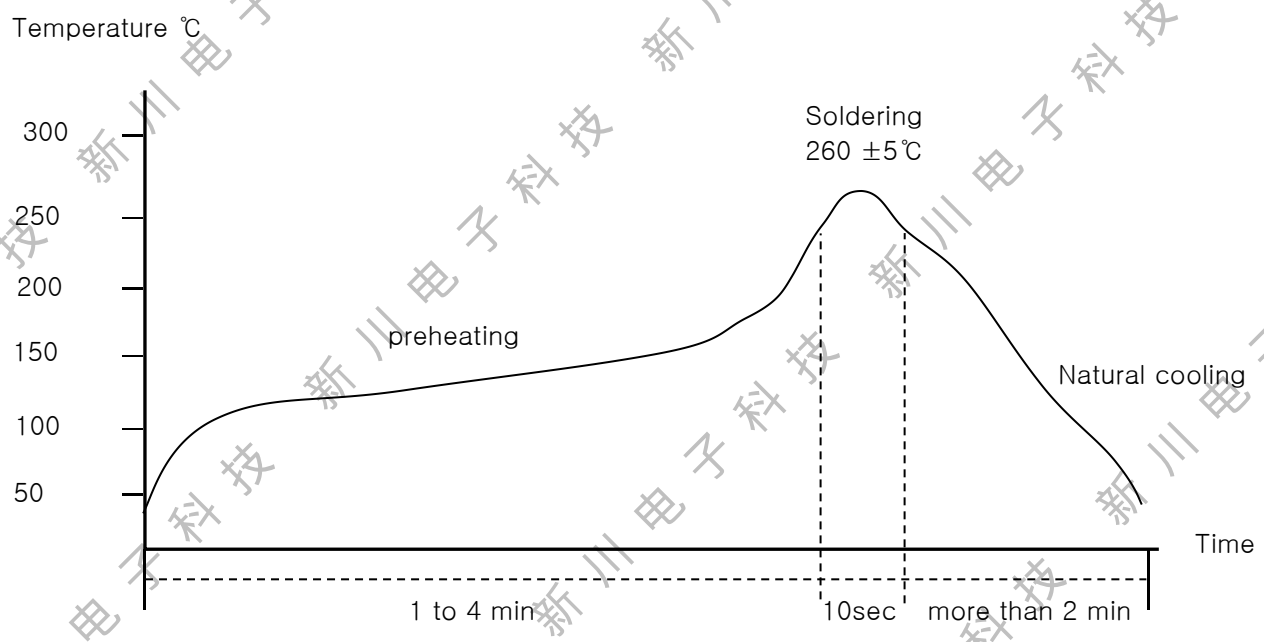
六.可靠性测试/RELIABILITY TESTING

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

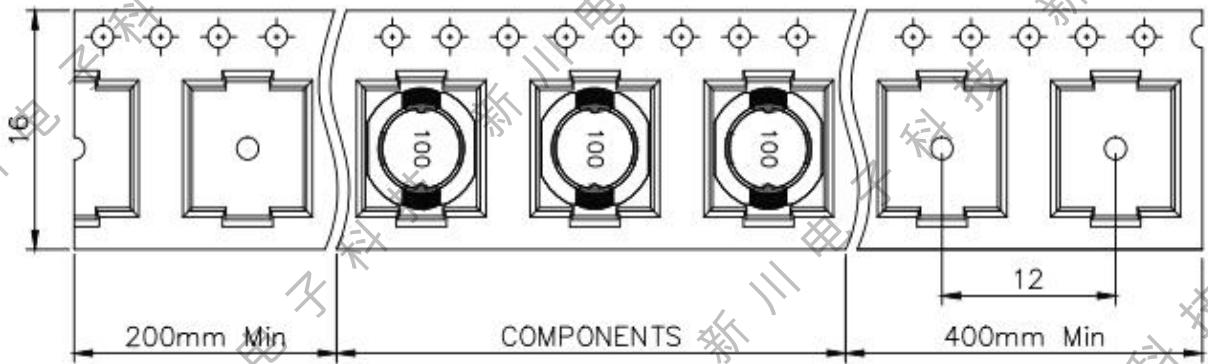
IR Reflow profile



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

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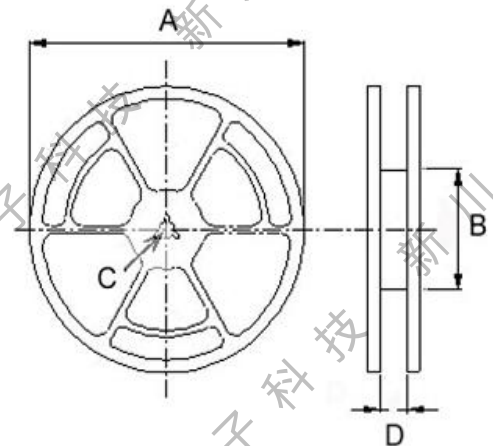
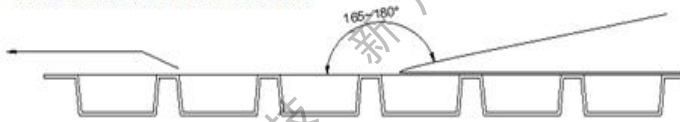
七.编带规格/TAPING SPECIFICATIONS



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

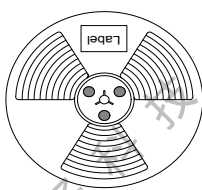
Adhesive strength of cover tape is 20 to 120 gf

The conduction band direction

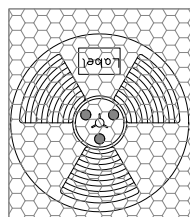


Reel Dimensions (Unit: mm)				Quantity
A	B	C	D	Pcs/Reel
330	100	13	16.5	1000

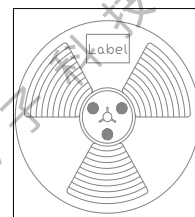
八.包装方式/PACKING LIST



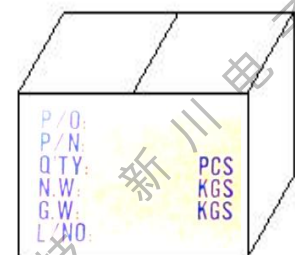
轮盘：13(直径330mm)
数量：1000PCS/盘



PE袋
数量：1000PCS/袋



内盒
数量：3000PCS/盒



外箱，数量：15000PCS/
箱
不足整箱用内盒或填充