



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

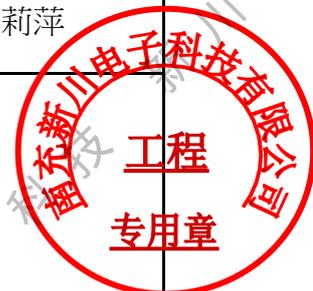
SPECIFICATION FOR APPROVAL

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>	-----
新川料号 <i>OURS PN</i>	CDRI-8D43-SERIES
文件编号 <i>FILE NO.</i>	SP-21072110

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	陈丽丽	张莉萍

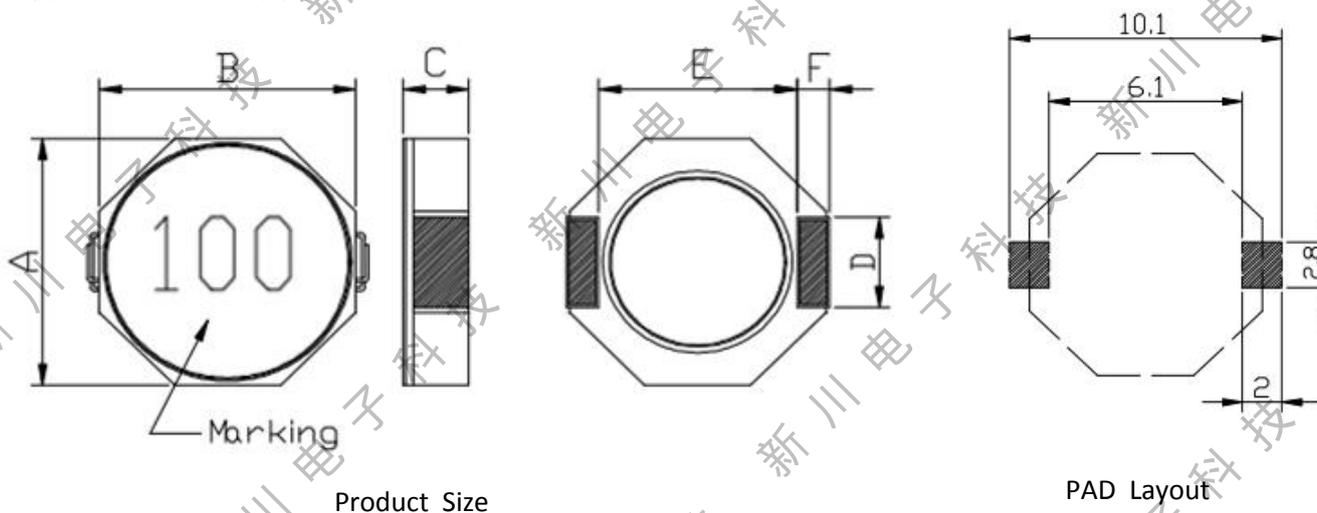
生产工厂：南充川磊电子科技有限公司  
销售公司：南充新川电子科技有限公司  
业务专线：0817-2111163/18681773184  
邮 件：threelayer\_sales@163.com  
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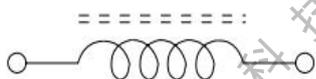
客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	-----	版别 REV.	1.0
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一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	F		
DIM	8.0	8.0	4.5	2.5	6.3	1.2		
TOLE	±0.3	±0.3	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-8D43-R68□	0.68	N	100K/0.25V	9	9	8	R68
CDRI-8D43-1R0□	1.0	N	100K/0.25V	12.2	8	6.2	1R0
CDRI-8D43-1R2□	1.2	N	100K/0.25V	12.2	8	6.2	1R2
CDRI-8D43-2R0□	2	N	100K/0.25V	14	7	5.5	2R0
CDRI-8D43-2R2□	2.2	N	100K/0.25V	16	6.8	5	2R2
CDRI-8D43-3R6□	3.6	N	100K/0.25V	19	5.9	4.5	3R6
CDRI-8D43-3R9□	3.9	N	100K/0.25V	19	5.9	4.5	3R9
CDRI-8D43-4R7□	4.7	M N	100K/0.25V	22	5.6	4.1	4R7
CDRI-8D43-5R6□	5.6	N	100K/0.25V	24	4.3	4	5R6

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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-8D43-6R8□	6.8	M N	100K/0.25V	25	4.4	3.9	6R8
CDRI-8D43-8R2□	8.2	M N	100K/0.25V	33	4.2	3.6	8R2
CDRI-8D43-100□	10	M N	100K/0.25V	36	4	3.2	100
CDRI-8D43-150□	15	M N	100K/0.25V	62	2.9	2.3	150
CDRI-8D43-220□	22	M N	100K/0.25V	75	2.60	1.80	220
CDRI-8D43-330□	33	M N	100K/0.25V	125	2.20	1.14	330
CDRI-8D43-470□	47	M N	100K/0.25V	150	1.80	1.30	470
CDRI-8D43-680□	68	M N	100K/0.25V	240	1.50	1.00	680
CDRI-8D43-101□	100	M N	100K/0.25V	360	1.30	0.80	101
CDRI-8D43-121□	120	M N	100K/0.25V	510	1.00	0.70	121

(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.

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

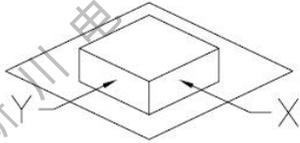
五.材料清单/MATERIAL LIST

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	BASE	C-8D43
3	WIRE	P180 Grd1
4	EPOXY	E-G500HF
5	SOLDER	Sn99.3:Cu0.7
6	INK	BLACK

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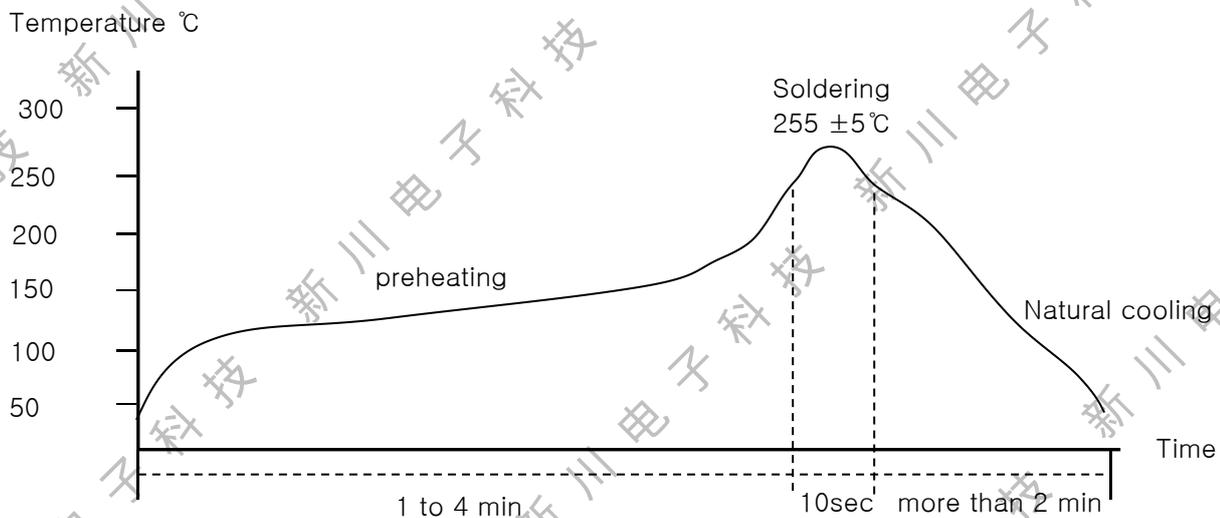
六.可靠性测试/RELIABILITY TESTING

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

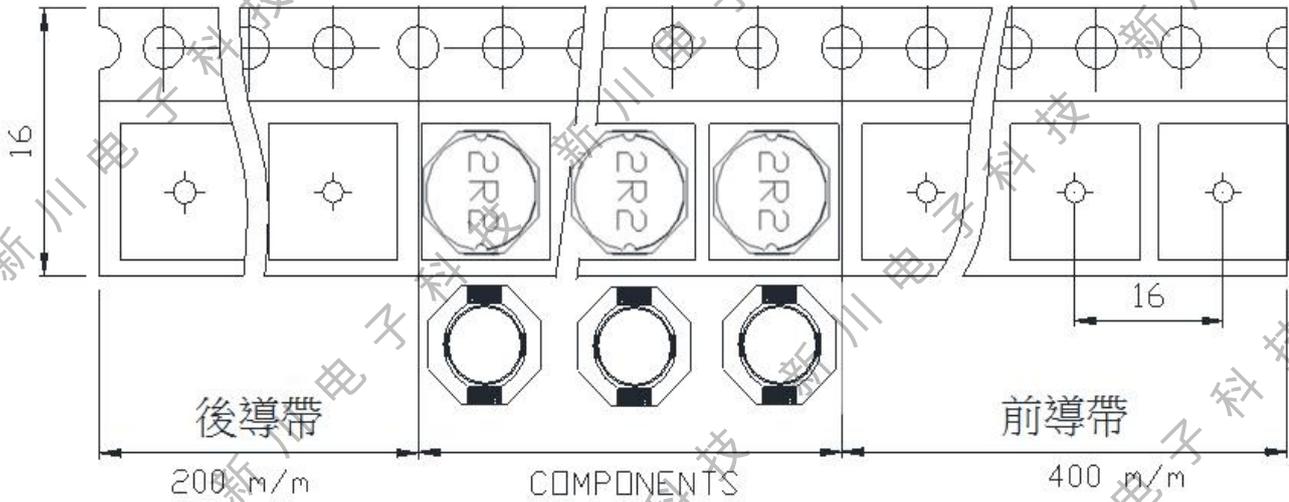
IR Reflow profile



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

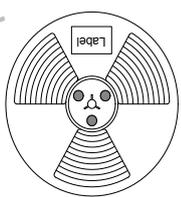
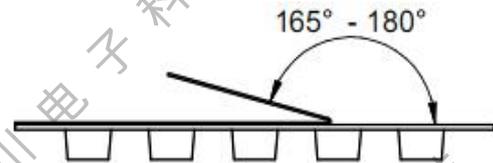
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七.包装方式/PACKING LIST

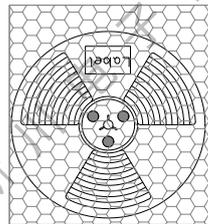


Transparent carrier and cover tape/透明载带和自粘上带

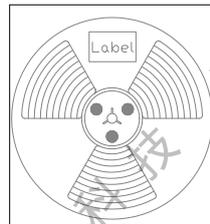
Tape width	Distance	Pull-of force
16 mm	16 mm	20~100g



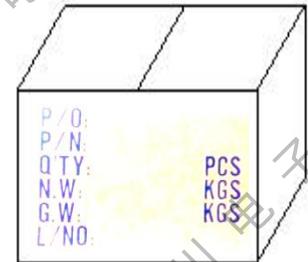
轮盘：13'(直径330mm)  
数量：900PCS/盘



PE袋  
数量：900PCS/袋



内盒  
数量：2700PCS/  
盒



外箱，数量：13500PCS/箱  
不足整箱用内盒或填充物  
装满