



南充新川电子科技有限公司

ThreeLayer Scientific-Technics Co.,Ltd



产品承认书

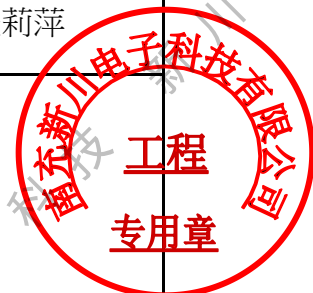
SPECIFICATION FOR APPROVAL

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-5D18-SERIES
文件编号 <i>FILE NO.</i>	SP-21072105

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

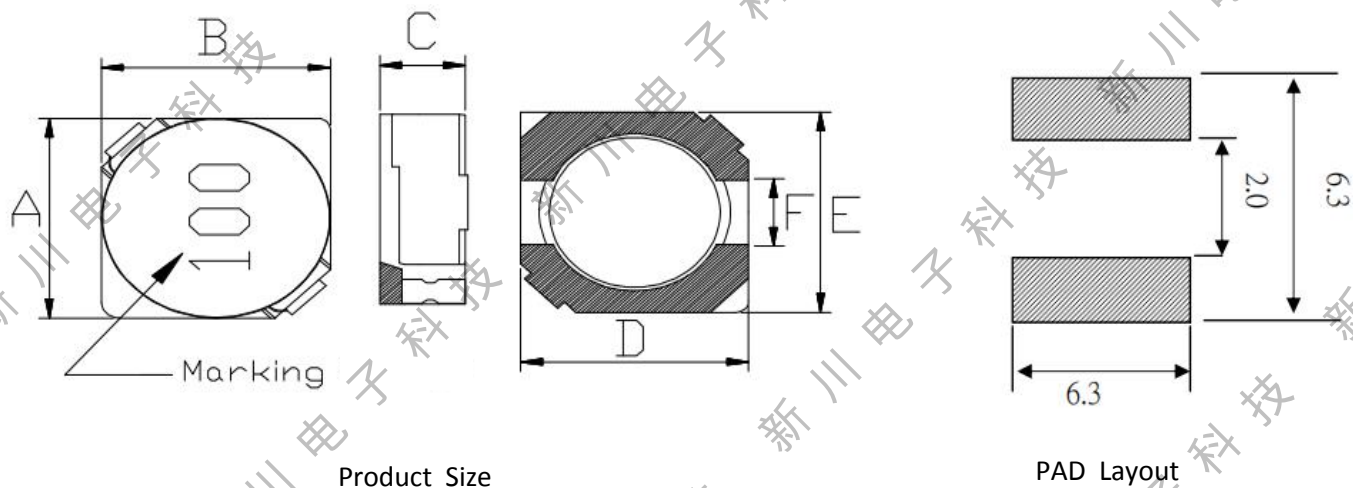
批准 <i>APPROVED</i>	确认 <i>CHECKED</i>	作成 <i>DESIGN</i>
程志华	陈丽丽	张莉萍

生产工厂：南充川磊电子科技有限公司
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客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	-----	版别 REV.	1.0
产品类型 PRODUCT TYPE	Shielded Power Inductors	新川品名 OURS P/N	CDRI-5D18-SERIES	文件编号 FILE NO.	SP-21072105

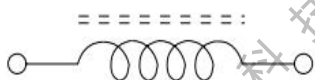
一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	F		
DIM	5.7	5.7	2.0	5.5	5.5	2.0		
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 Nuber	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR (Ω) Max.	IDC (A)	MARK
CDRI-5D18-4R1□	4.1	N	100KHz/0.1V	57m	1.95	4R1
CDRI-5D18-5R4□	5.4	N	100KHz/0.1V	76m	1.6	5R4
CDRI-5D18-6R2□	6.2	M N	100KHz/0.1V	96m	1.4	6R2
CDRI-5D18-6R8□	6.8	M N	100KHz/0.1V	96m	1.4	6R8
CDRI-5D18-8R9□	8.9	M N	100KHz/0.1V	0.116	1.25	8R9
CDRI-5D18-100□	10	M N	100KHz/0.1V	0.124	1.2	100
CDRI-5D18-120□	12	M N	100KHz/0.1V	0.153	1.1	120
CDRI-5D18-150□	15	M N	100KHz/0.1V	0.196	0.97	150
CDRI-5D18-180□	18	M N	100KHz/0.1V	0.21	0.85	180

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四.电气特性/ELECTRICAL CHARACTERISTIC

Part Nuber	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR (Ω) Max.	IDC (A)	MARK
CDRI-5D18-220□	22	M N	100KHz/0.1V	0.29	0.8	220
CDRI-5D18-270□	27	M N	100KHz/0.1V	0.33	0.8	270
CDRI-5D18-330□	33	M N	100KHz/0.1V	0.385	0.7	330
CDRI-5D18-390□	39	M N	100KHz/0.1V	0.52	0.6	390
CDRI-5D18-470□	47	M N	100KHz/0.1V	0.595	0.5	470
CDRI-5D18-560□	56	M N	100KHz/0.1V	0.665	0.5	560
CDRI-5D18-680□	68	M N	100KHz/0.1V	0.84	0.4	680
CDRI-5D18-820□	82	M N	100KHz/0.1V	0.978	0.4	820
CDRI-5D18-101□	100	K M	100KHz/0.1V	1.20	0.36	101

(1) Specify the inductance tolerance, K(±10%),M(±20%),N(±30%)

(2).IDC:The DC current at which causes initial inductance to decreases by 35% MAX, or temperature to rise by 40°C, whichever is lower(At ambient reference temperature:25°C).

(3).Operating temp.: -40°C to +125°C

(4).Storage Temp: -20°C up to +40°C, 75% RH max.

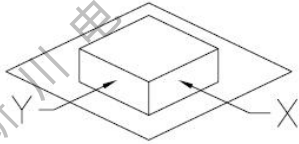
五.材料清单/MATERIAL LIST

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	BASE	C-5D18 P3
3	WIRE	P180 Grd1
4	EPOXY	E-G500HF
5	SOLDER	Sn99.3:Cu0.7
6	INK	BLACK

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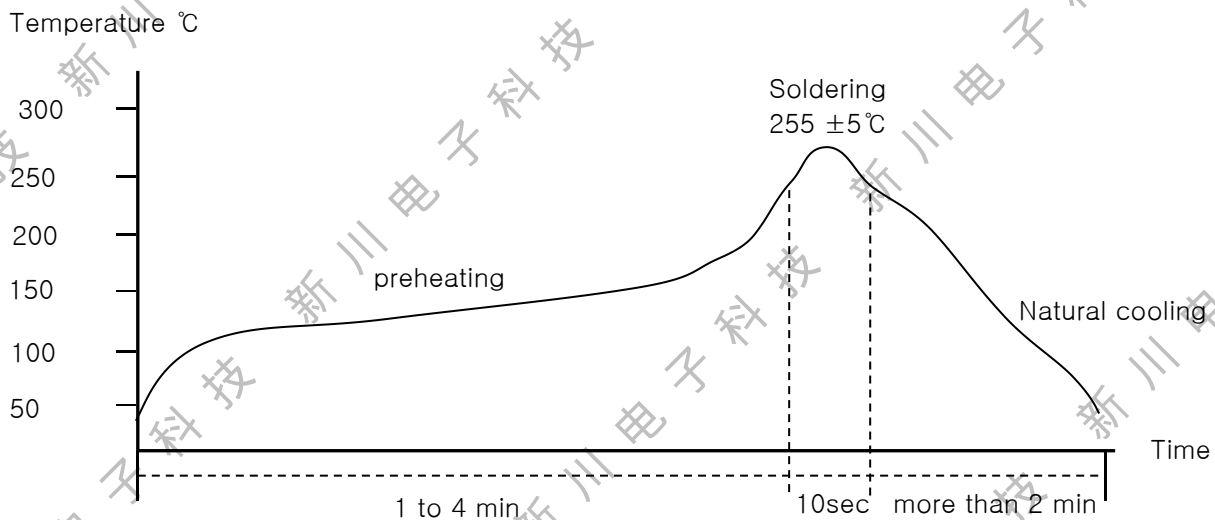
六.可靠性测试/RELIABILITY TESTING

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

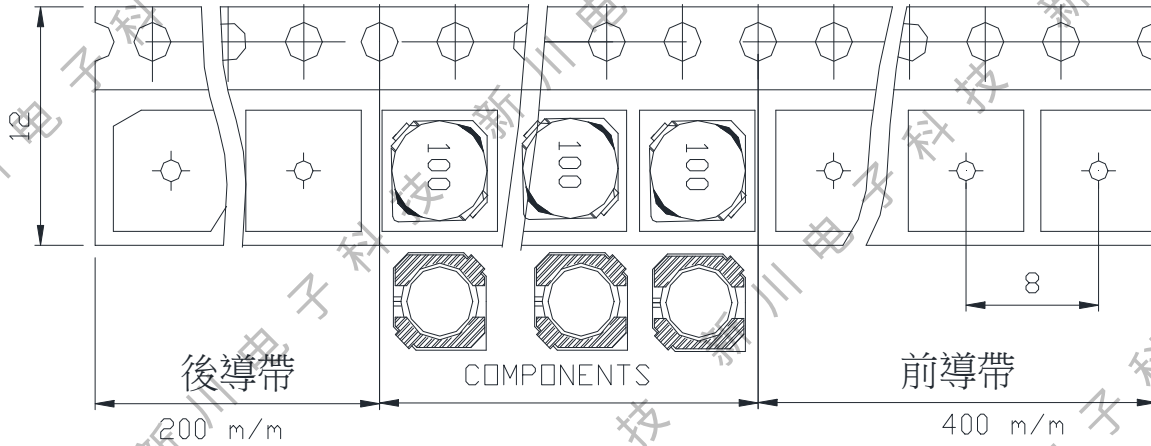
IR Reflow profile



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

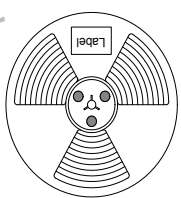
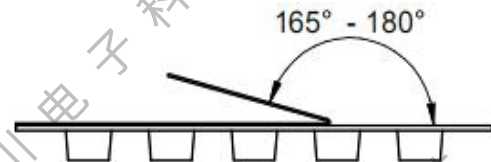
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七.包装方式/PACKING LIST

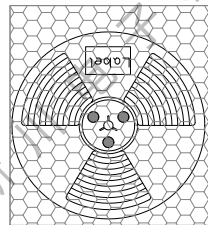


Transparent carrier and cover tape/透明载带和自粘上带

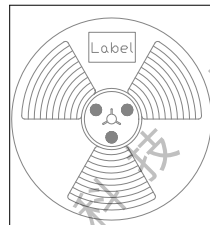
Tape width	Distance	Pull-of force
12 mm	8 mm	20~100g



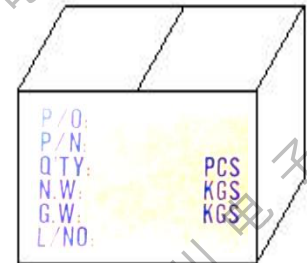
轮盘：13'(直径330mm)
数量：2000PCS/盘



PE袋
数量：2000PCS/袋



内盒
数量：8000PCS/
盒



外箱，数量：40000PCS/箱
不足整箱用内盒或填充物
装满