



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-3D16HP-SERIES
文件编号 <i>FILE NO.</i>	SP-21072101

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

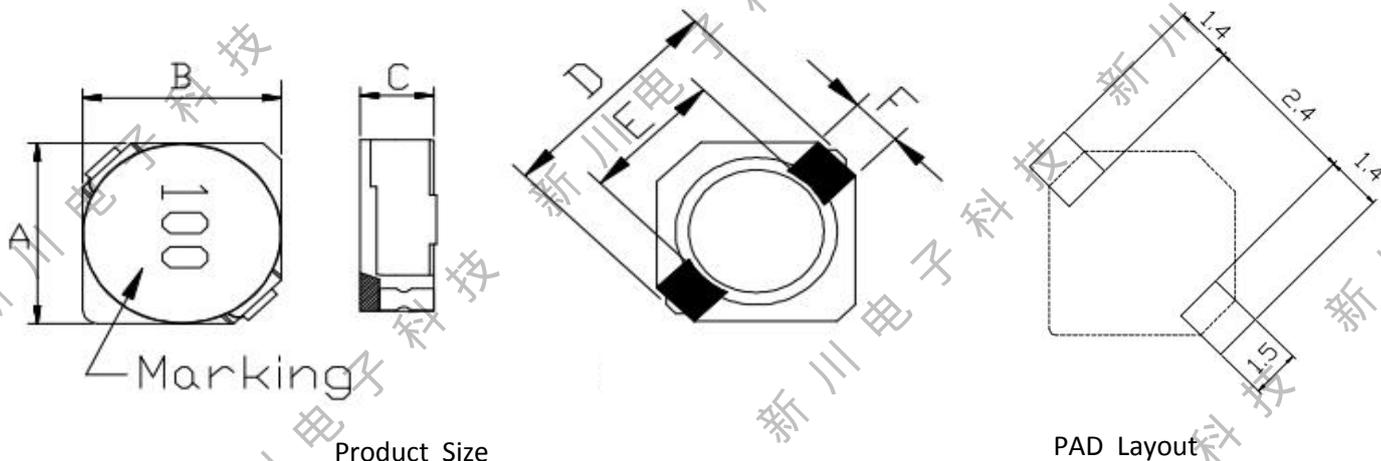
生产工厂：南充川磊电子科技有限公司  
销售公司：南充新川电子科技有限公司  
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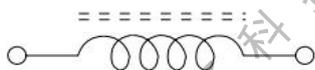
客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	-----	版别 REV.	1.0
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一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D (1R0~4R7)	D (6R8~561)	E	F		
DIM	3.8	3.8	1.8	5.4	5.2	2.8	1.1		
TOLE	±0.2	±0.2	Max	Max	Max	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-3D16HP-1R0□	1.0	N	100KHz/0.1V	48m	2.5	2.8	1R0
CDRI-3D16HP-1R2□	1.2	N	100KHz/0.1V	49.5m	2.3	2.6	1R2
CDRI-3D16HP-1R5□	1.5	N	100KHz/0.1V	51m	2.0	2.4	1R5
CDRI-3D16HP-1R7□	1.7	N	100KHz/0.1V	51m	2.0	2.4	1R7
CDRI-3D16HP-2R2□	2.2	M N	100KHz/0.1V	59m	1.75	2.3	2R2
CDRI-3D16HP-3R3□	3.3	M N	100KHz/0.1V	85m	1.4	1.8	3R3
CDRI-3D16HP-4R7□	4.7	M N	100KHz/0.1V	0.116	1.2	1.5	4R7
CDRI-3D16HP-6R8□	6.8	M N	100KHz/0.1V	0.18	1.0	1.1	6R8
CDRI-3D16HP-100□	10	M N	100KHz/0.1V	0.23	0.84	1.0	100

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Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR (mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
CDRI-3D16HP-150□	15	M N	100KHz/0.1V	0.41	0.65	0.8	150
CDRI-3D16HP-220□	22	M N	100KHz/0.1V	0.61	0.55	0.52	220
CDRI-3D16HP-330□	33	M N	100KHz/0.1V	0.87	0.46	0.41	330
CDRI-3D16HP-470□	47	M N	100KHz/0.1V	0.95	0.42	0.37	470
CDRI-3D16HP-561□	560	M N	100KHz/0.1V	15	0.09	0.11	561

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

(2).IDC1:Base on temp.rise & ΔL/L0A ≤ 35% MAX

(3).IDC2:Temp.rise 40°C Typ

(4).Operating temp.: -40°C to +125°C

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

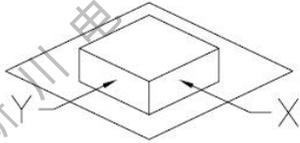
五.材料清单/MATERIAL LIST

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	BASE	C-3D16LD
3	WIRE	P180 Grd1
4	EPOXY	E-G500HF
5	SOLDER	Sn99.3:Cu0.7
6	INK	BLACK

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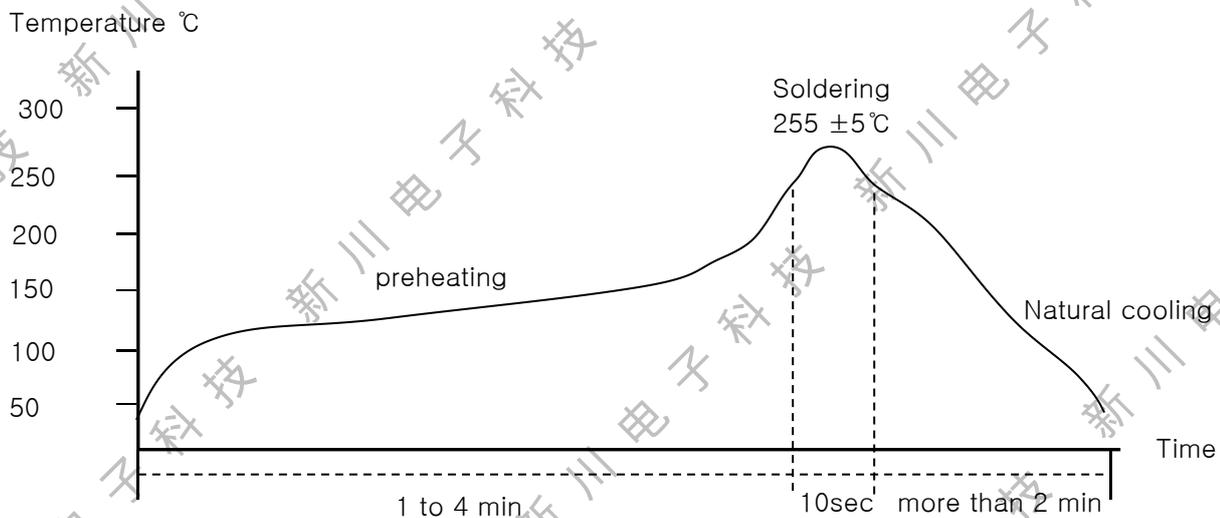
六.可靠性测试/RELIABILITY TESTING

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

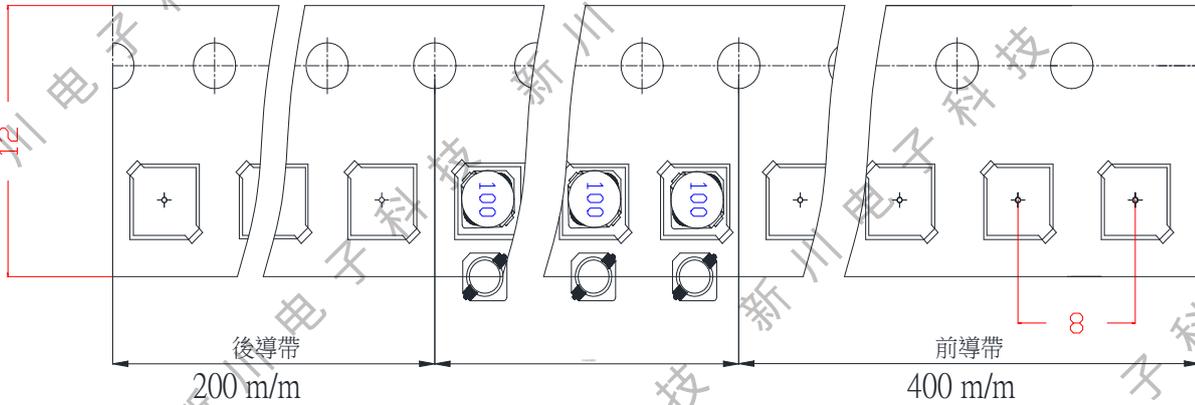
IR Reflow profile



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

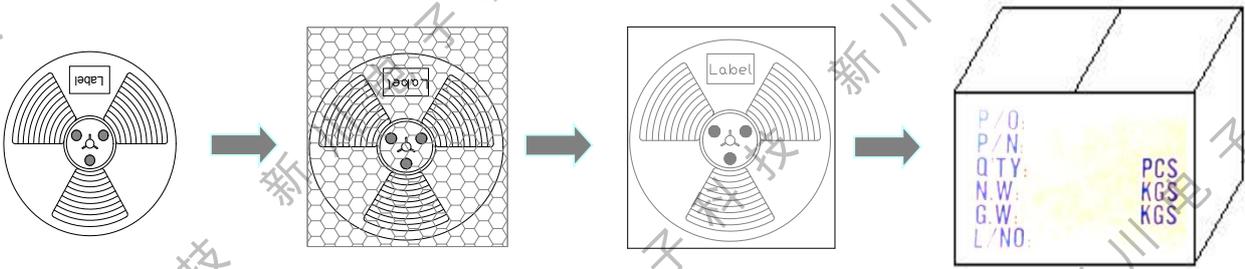
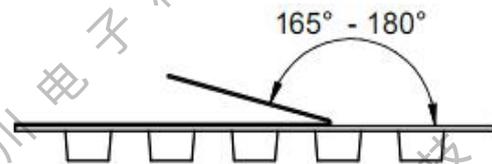
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七.包装方式/PACKING LIST



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：3500PCS/盘

PE袋  
数量：3500PCS/袋

内盒  
数量：14000PCS/  
盒

外箱，数量：70000PCS/箱  
不足整箱用内盒或填充物  
装满