



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

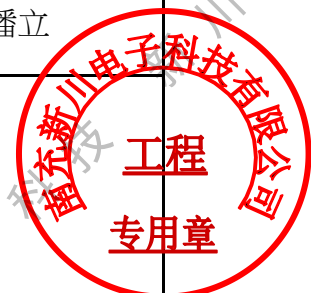
SPECIFICATION FOR APPROVAL

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-3018F SERIES
文件编号 <i>FILE NO.</i>	SP-18121702

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	陈尧	潘立

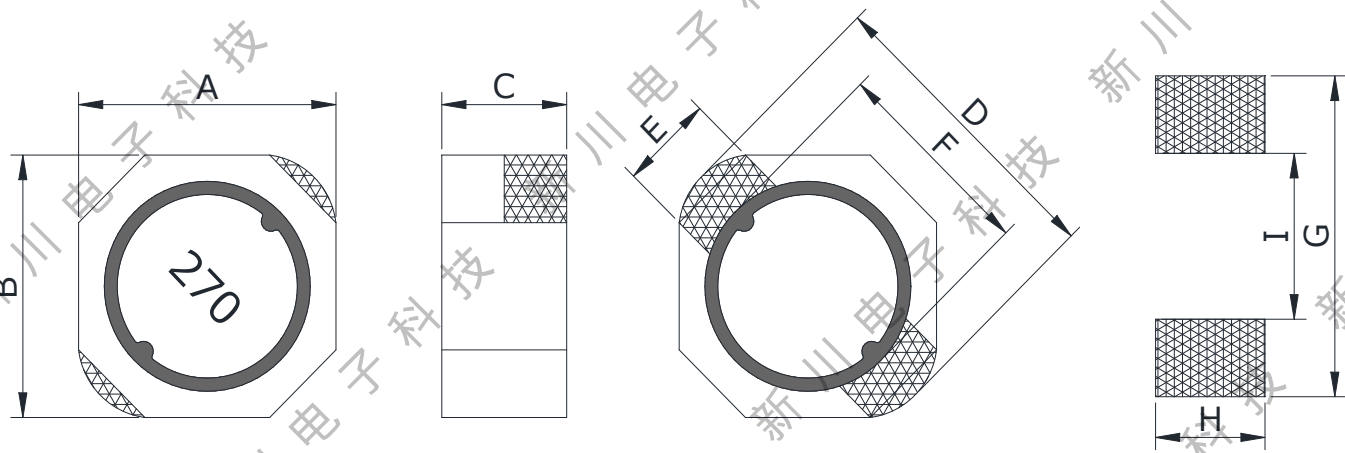
生产工厂：南充川磊电子科技有限公司  
 销售公司：南充新川电子科技有限公司  
 业务专线：0817-2111163/18681773184  
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客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	-----	版别 REV.	A
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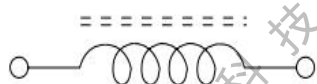
一.尺寸图/DIMENSION (单位/UNIT : mm)



PAD Layout

ITEM	A	B	C	D	E	F	G	H	I
DIM	3.9	3.9	1.8	4.5	1.7	3.2	5.0	2.0	3.0
TOLE	±0.3	±0.3	Max	Max	Typ	Typ	Typ	Typ	Typ

二.电路图/CIRCUIT DIAGRAM



三.注意事项/NOTE :

1.印字 : 白色Gulim字体 , 2.0x1.7mm

四.电气特性/ELECTRICAL CHARACTERISTIC

Part Number	INDUCTANCE (uH)	TEST FREQ. (Hz)	DCR (mΩ) Max.	IDC1 (A) Max.	IDC2 (A) Max.	MARK
CDRI-3018F-1R0N	1.0 ±30%	100K/0.25V	45	1.24	1.98	1R0
CDRI-3018F-1R5N	1.5 ±30%	100K/0.25V	56	1.11	1.82	1R5
CDRI-3018F-2R2N	2.2 ±30%	100K/0.25V	80	0.91	1.58	2R2
CDRI-3018F-2R5N	2.5 ±30%	100K/0.25V	80	0.80	1.52	2R5
CDRI-3018F-3R3N	3.3 ±30%	100K/0.25V	110	0.79	1.40	3R3
CDRI-3018F-4R7N	4.7 ±30%	100K/0.25V	126	0.64	1.12	4R7
CDRI-3018F-5R6N	5.6 ±30%	100K/0.25V	170	0.55	1.02	5R6
CDRI-3018F-6R8N	6.8 ±30%	100K/0.25V	205	0.54	0.79	6R8
CDRI-3018F-8R2N	8.2 ±30%	100K/0.25V	265	0.45	0.78	8R2
CDRI-3018F-100M	10.0 ±20%	100K/0.25V	290	0.44	0.75	100

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四.电气特性/ELECTRICAL CHARACTERISTIC

Part Number	INDUCTANCE (uH)	TEST FREQ. (Hz)	DCR (mΩ) Max.	IDC1 (A) Max.	IDC2 (A) Max.	MARK
CDRI-3018F-120M	12.0 ±20%	100K/0.25V	400	0.38	0.65	120
CDRI-3018F-150M	15.0 ±20%	100K/0.25V	545	0.33	0.58	150
CDRI-3018F-180M	18.0 ±20%	100K/0.25V	615	0.31	0.54	180
CDRI-3018F-220M	22.0 ±20%	100K/0.25V	680	0.29	0.44	220
CDRI-3018F-270M	27.0 ±20%	100K/0.25V	800	0.24	0.38	270

- (1).IDC1:Base on temprise &  $\Delta L/L0A \leq 30\%$  Max
- (2).IDC2:Temp.rise 40°C Typ
- (3).Operating temp.: -40°C to +125°C
- (4).Storage Temp: -20°C up to +40°C, 75% RH max.

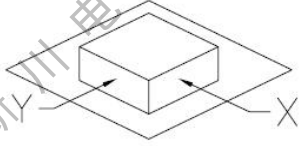
五.材料清单/MATERIAL LIST

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	WIRE	P180 Grd1
3	ADHESIVE	XNR3614
4	TIN	107H
5	INK	WHITE

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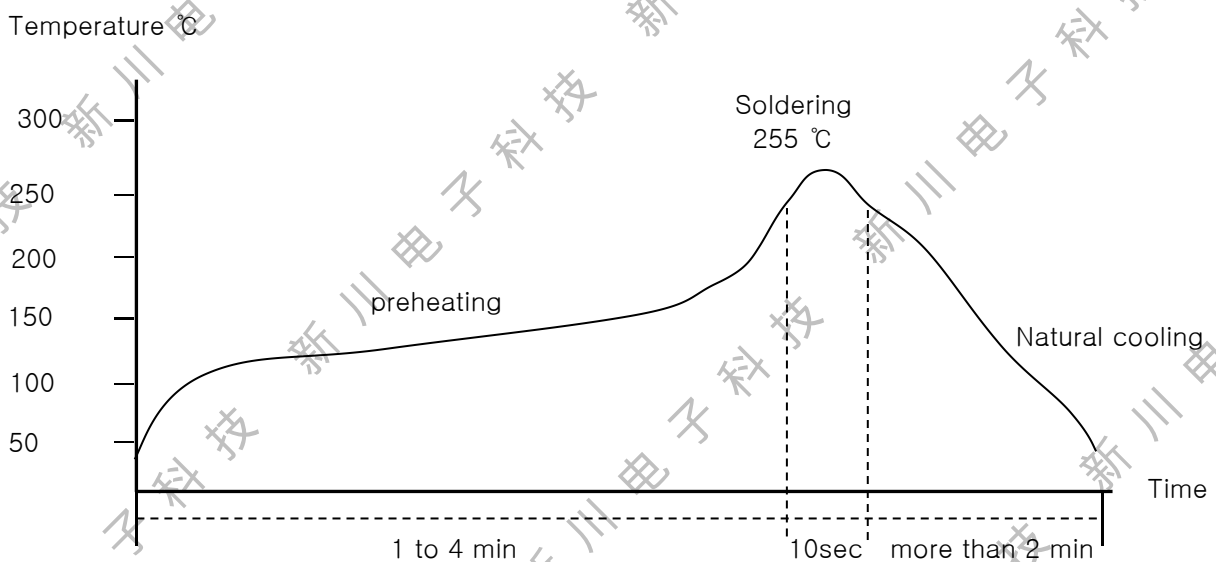
六.可靠性测试/RELIABILITY TESTING

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

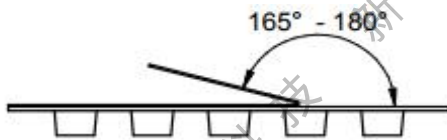
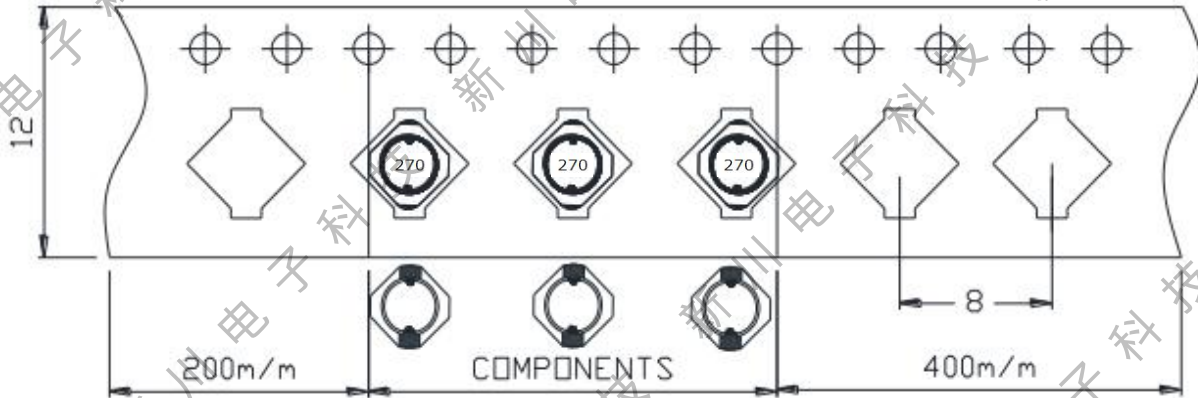
IR Reflow profile



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

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七.编带规格/TAPING SPECIFICATIONS

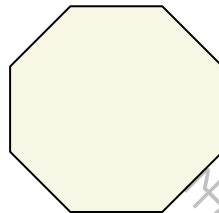


Tape width	Distance	Pull-of force
12 mm	8 mm	10~120g

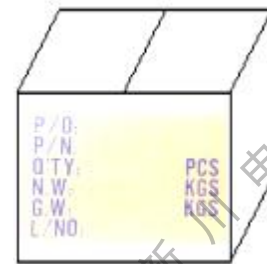
八.包装方式/PACKING LIST



轮盘：7(直径178mm)  
数量：1000PCS/盘



内盒/PE袋  
数量：4000PCS/盒



外箱，数量：40000PCS/箱  
不足整箱用内盒或填充物装满