



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 -----  
CUSTOMER NAME.

产品类型 SMD Power Inductors  
PRODUCT TYPE

客户料号 -----  
CUSTOMER P/N

川磊料号 CLNR-4018 SERIES  
OURS P/N

文件编号 SP-21022504  
FILE NO.

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

批准 APPROVED	确认 CHECKED	作成 DESIGN
程志华	陈尧	潘立

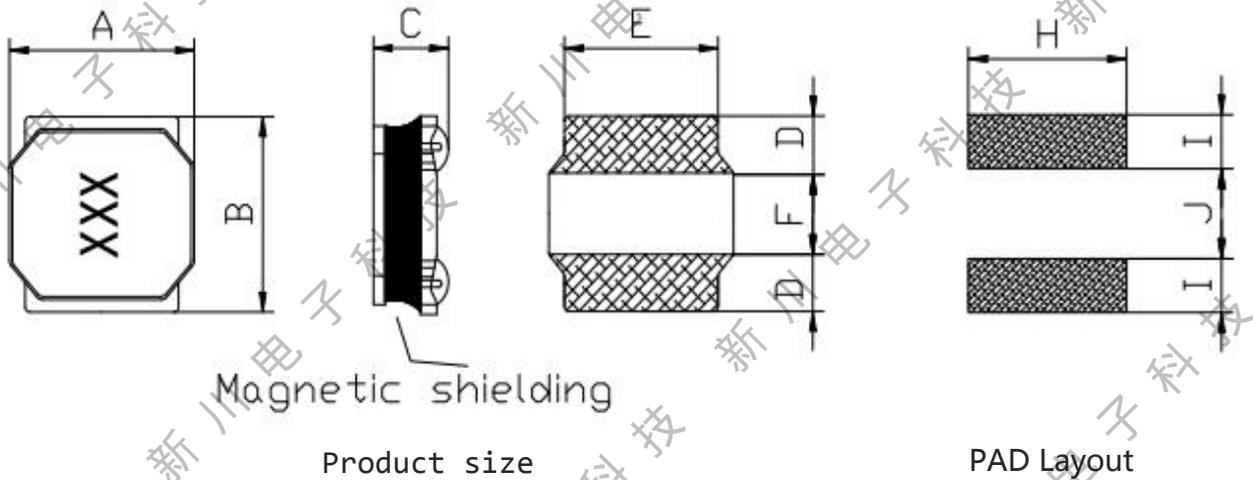
生产工厂：南充川磊电子科技有限公司  
销售公司：南充新川电子科技有限公司  
业务专线：0817-2111163/18681773184  
邮 件：threeayer\_sales@163.com  
地 址：四川省南充市顺庆区潞华工业园区华生东路





客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	-----	版别 REV.	1.0
产品类型 PRODUCT TYPE	SMD Power Inductors	新川品名 OURS P/N	CLNR-4018 SERIES	文件编号 FILE NO.	SP-21022504

一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	F	H	I	J
DIM	4.0	4.0	1.8	1.2	3.5	1.6	3.8	1.6	1.3
TOLE	±0.2	±0.2	Max	Typ	Typ	Typ	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
CLNR-4018-R47□	0.47	N	100KHZ/1V	18	4.3	4.00	R47
CLNR-4018-R68□	0.68	N	100KHZ/1V	26	4.9	3.30	R68
CLNR-4018-1R0□	1.0	N	100KHZ/1V	33	4.8	2.00	1R0
CLNR-4018-1R5□	1.5	N	100KHZ/1V	39	3.35	1.80	1R5
CLNR-4018-1R8□	1.8	M N	100KHZ/1V	44	3	1.70	1R8
CLNR-4018-2R2□	2.2	M N	100KHZ/1V	59	2.7	1.65	2R2
CLNR-4018-3R3□	3.3	M N	100KHZ/1V	91	2.45	1.23	3R3

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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
CLNR-4018-4R7□	4.7	M N	100KHZ/1V	117	1.7	1.20	4R7
CLNR-4018-6R8□	6.8	M N	100KHZ/1V	143	1.45	1.06	6R8
CLNR-4018-100□	10	M N	100KHZ/1V	234	1.3	0.84	100
CLNR-4018-150□	15	M N	100KHZ/1V	325	0.94	0.65	150
CLNR-4018-220□	22	M N	100KHZ/1V	468	0.8	0.59	220
CLNR-4018-270□	27	M N	100KHZ/1V	611	0.47	0.52	270
CLNR-4018-330□	33	M N	100KHZ/1V	689	0.56	0.49	330
CLNR-4018-470□	47	M N	100KHZ/1V	845	0.57	0.42	470
CLNR-4018-680□	68	M N	100KHZ/1V	1300	0.47	0.32	680
CLNR-4018-101□	100	M N	100KHZ/1V	2275	0.4	0.25	101
CLNR-4018-151□	150	M N	100KHZ/1V	3250	0.31	0.22	151
CLNR-4018-221□	220	M N	100KHZ/1V	5200	0.27	0.17	221

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

(2).IDC1:Base on temp.rise & ΔL/L0A 30% Typ

(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.

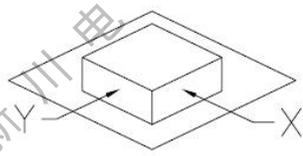
五.材料清单/MATERIAL LIST

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	WIRE	P180 G1
3	ADHESIVE	NR-3614
4	TIN	107H
5	INK	BLACK

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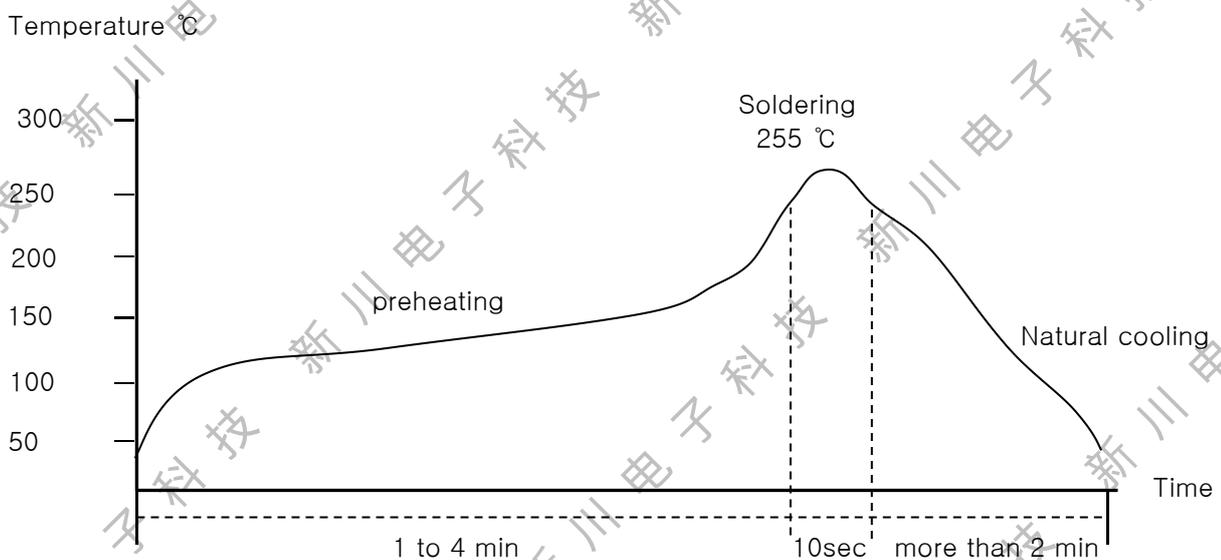
六.可靠性测试/RELIABILITY TESTING

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

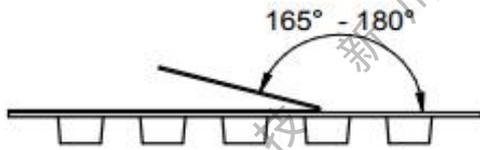
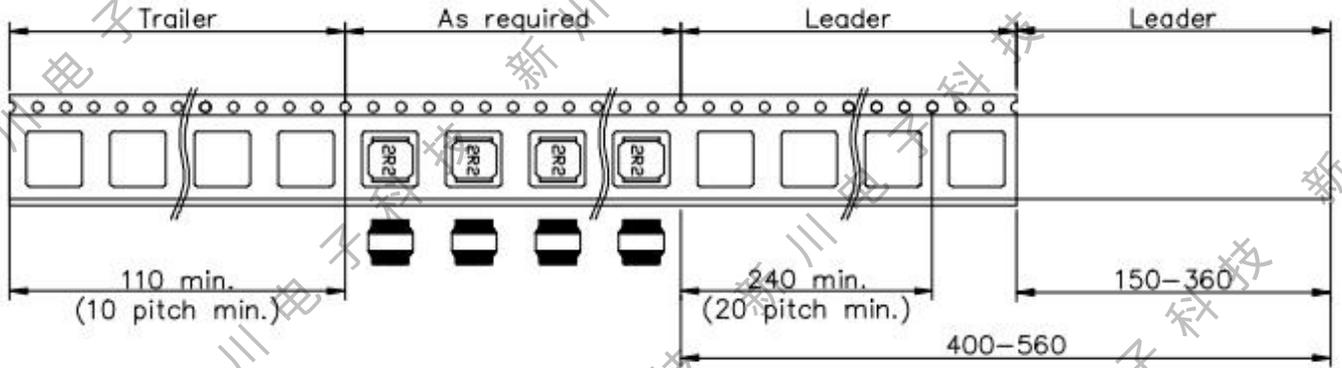
IR Reflow profile



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

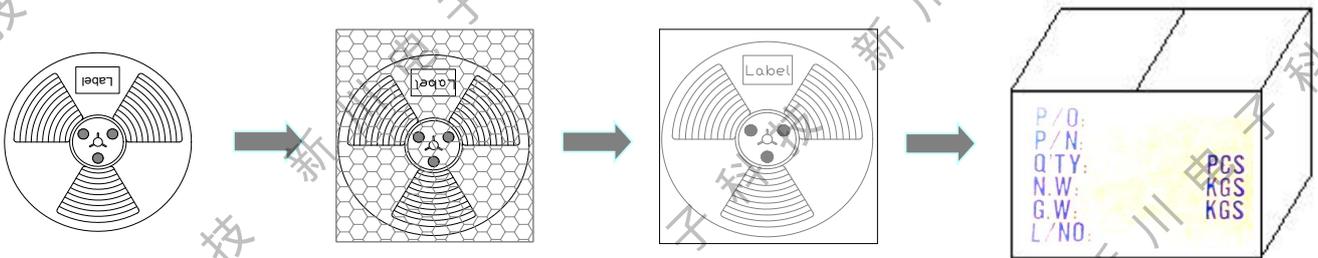
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七.编带规格/TAPING SPECIFICATIONS



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

八.包装方式/PACKING LIST



轮盘：13'(直径330mm)  
数量：3000PCS/盘

PE袋  
数量：3000PCS/袋

内盒  
数量：12000PCS/盒

外箱，数量：60000PCS/箱  
不足整箱用内盒或填充物  
装满