



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-5040 SERIES
OURS P/N

文件编号 SP-21022503
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

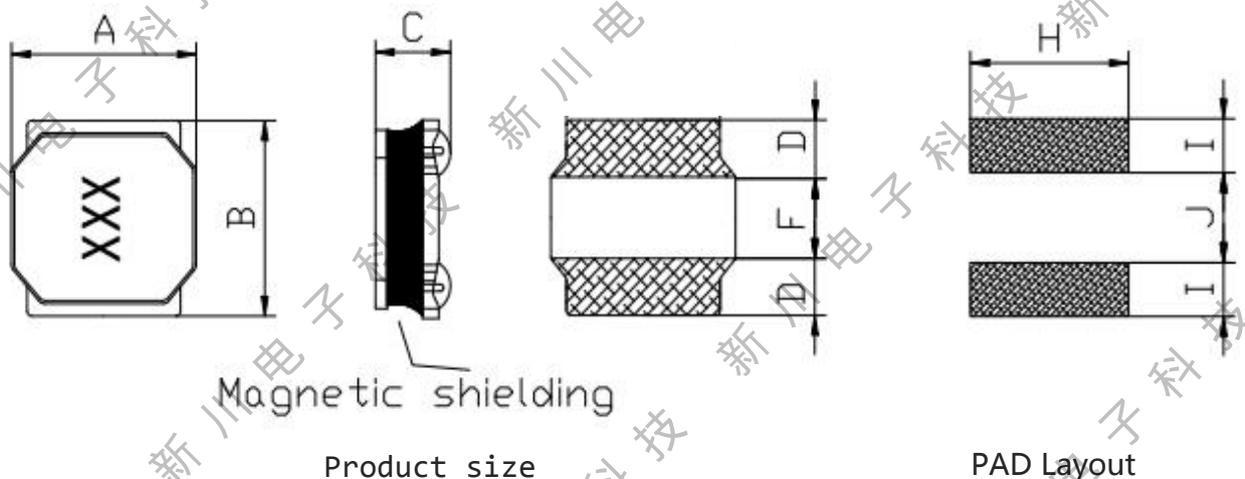
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地 址：四川省南充市顺庆区潞华工业园区华生东路



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-5040 SERIES	文件编号 FILE NO.	SP-21022503

一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	F	H	I	J	
DIM	5.0	5.0	4.0	1.5	1.9	5.2	1.7	1.8	
TOLE	±0.2	±0.2	±0.2	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) ±30%	IDC1 (A) Max.	IDC2 (A) Max.	MARK
CLNR-5040-1R0□	1.0	M N	100KHZ/1V	13	7.3	4.0	1R0
CLNR-5040-1R5□	1.5	M N	100KHZ/1V	20	6.0	3.6	1R5
CLNR-5040-2R2□	2.2	M N	100KHZ/1V	22	4.6	3.5	2R2
CLNR-5040-3R3□	3.3	M N	100KHZ/1V	27	3.8	3.3	3R3
CLNR-5040-4R7□	4.7	M N	100KHZ/1V	29	3.3	3.1	4R7
CLNR-5040-6R8□	6.8	M N	100KHZ/1V	49	2.6	2.3	6R8
CLNR-5040-8R2□	8.2	M N	100KHZ/1V	53	2.45	2.2	8R2

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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-5040-100□	10	M N	100KHZ/1V	56	2.3	2.10	100
CLNR-5040-150□	15	M N	100KHZ/1V	80	2.0	1.80	150
CLNR-5040-220□	22	M N	100KHZ/1V	126	1.6	1.40	220
CLNR-5040-330□	33	M N	100KHZ/1V	180	1.3	1.20	330
CLNR-5040-470□	47	M N	100KHZ/1V	310	1.1	0.90	470
CLNR-5040-680□	68	M N	100KHZ/1V	500	0.9	0.80	680
CLNR-5040-820□	82	M N	100KHZ/1V	600	0.7	0.70	820
CLNR-5040-101□	100	M N	100KHZ/1V	800	0.65	0.60	101
CLNR-5040-151□	150	M N	100KHZ/1V	1180	0.6	0.50	151
CLNR-5040-181□	180	M N	100KHZ/1V	1250	0.5	0.45	181
CLNR-5040-221□	220	M N	100KHZ/1V	1450	0.45	0.40	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.

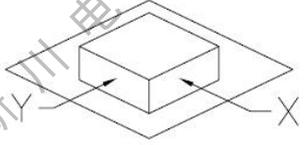
五.材料清单/MATERIAL LIST

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

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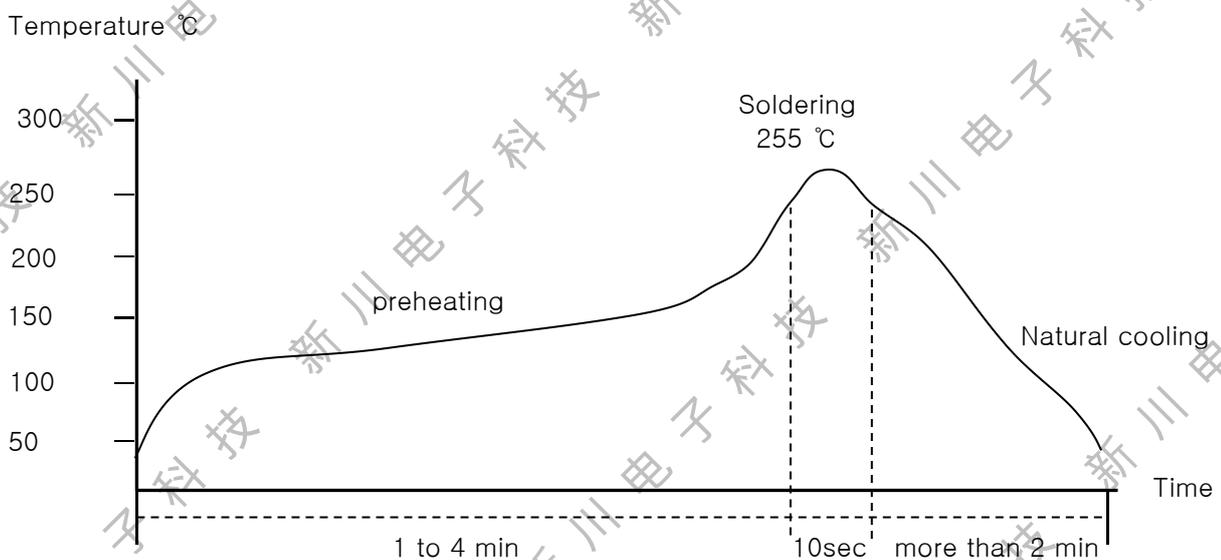
六.可靠性测试/RELIABILITY TESTING

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

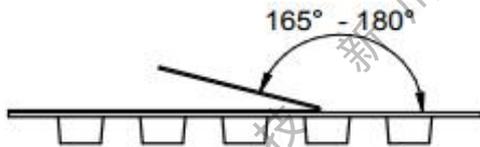
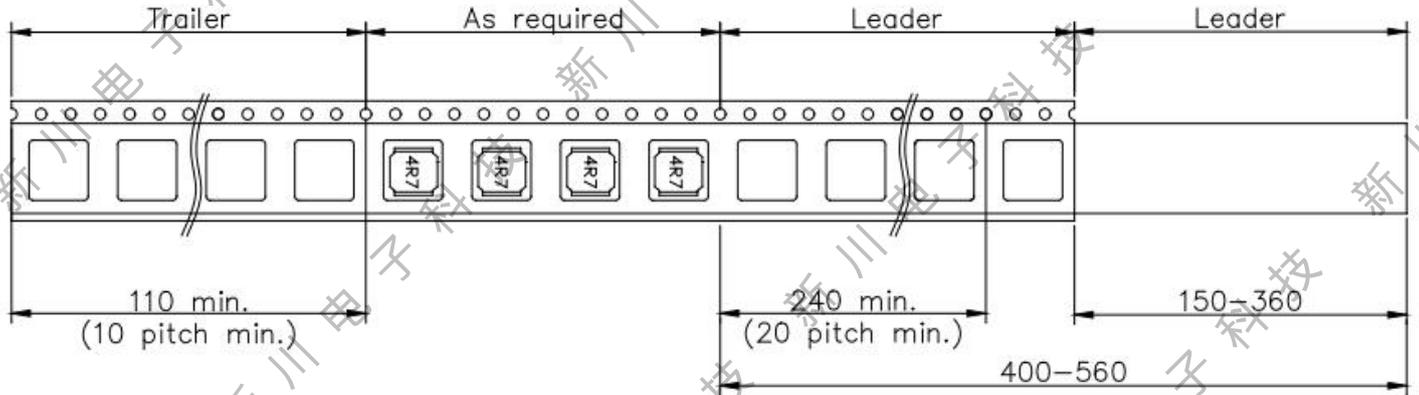
IR Reflow profile



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

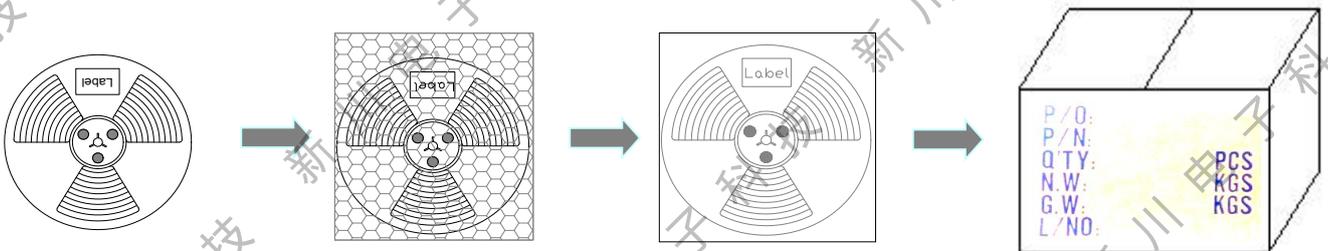
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七.编带规格/TAPING SPECIFICATIONS



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：1500PCS/盘

PE袋
数量：1500PCS/袋

内盒
数量：6000PCS/盒

外箱，数量：30000PCS/箱
不足整箱用内盒或填充物
装满