



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-6045 SERIES
OURS P/N

文件编号 SP-20061307
FILE NO.

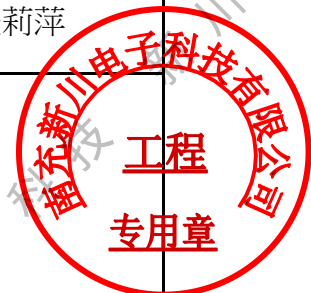
客户承认/CUSTOMER ACCEPTED

承认 <i>APPROVED</i>	确认 <i>CHECKED</i>	承办 <i>DESIGN</i>

批注/REMARK

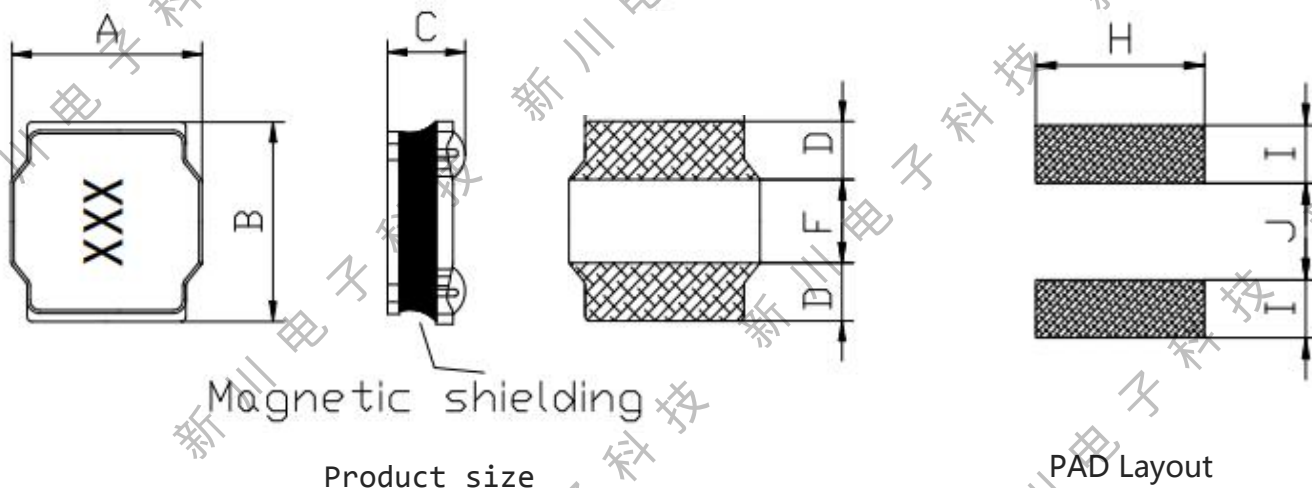
批准 <i>APPROVED</i>	确认 <i>CHECKED</i>	作成 <i>DESIGN</i>
程志华	何利	张莉萍

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
业务专线：0817-2111163/18681773184
邮 件：threelayer_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.	1.1
产品类型 PRODUCT TYPE	SMD Power Inductors	新川品名 OURS P/N	CLNR-6045 SERIES	文件编号 FILE NO.	SP-20061307

一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	F	H	I	J	
DIM	6.0	6.0	4.5	1.65	2.7	5.3	2.1	2.4	
TOLE	±0.2	±0.2	Max	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-6045-R68□	0.68	N	100KHZ/1V	8	11	5.70	R68
CLNR-6045-1R0□	1.0	M N	100KHZ/1V	14	9.85	5.14	1R0
CLNR-6045-1R5□	1.5	M N	100KHZ/1V	16	8.8	4.95	1R5
CLNR-6045-2R2□	2.2	M N	100KHZ/1V	18	6.75	4.60	2R2
CLNR-6045-2R7□	2.7	M N	100KHZ/1V	20	5.75	4.30	2R7
CLNR-6045-3R3□	3.3	M N	100KHZ/1V	27	5.9	3.70	3R3
CLNR-6045-4R7□	4.7	M N	100KHZ/1V	34	4.97	3.30	4R7

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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-6045-5R6□	5.6	M N	100KHZ/1V	38	4.15	3.15	5R6
CLNR-6045-6R8□	6.8	M N	100KHZ/1V	40	3.9	3.00	6R8
CLNR-6045-7R5□	7.5	M N	100KHZ/1V	44	3.5	2.90	7R5
CLNR-6045-8R2□	8.2	M N	100KHZ/1V	56	3.9	2.60	8R2
CLNR-6045-100□	10	M N	100KHZ/1V	62	3.2	2.45	100
CLNR-6045-120□	12	M N	100KHZ/1V	75	2.8	2.20	120
CLNR-6045-150□	15	M N	100KHZ/1V	88	2.5	2.05	150
CLNR-6045-180□	18	M N	100KHZ/1V	105	2.2	1.85	180
CLNR-6045-220□	22	M N	100KHZ/1V	116	2.05	1.80	220
CLNR-6045-270□	27	M N	100KHZ/1V	133	1.9	1.65	270
CLNR-6045-330□	33	M N	100KHZ/1V	178	1.65	1.45	330
CLNR-6045-390□	39	M N	100KHZ/1V	234	1.5	1.25	390
CLNR-6045-470□	47	M N	100KHZ/1V	260	1.4	1.20	470
CLNR-6045-560□	56	M N	100KHZ/1V	287	1.3	1.10	560
CLNR-6045-680□	68	M N	100KHZ/1V	376	1.2	1.00	680
CLNR-6045-820□	82	M N	100KHZ/1V	443	1.05	0.90	820
CLNR-6045-101□	100	M N	100KHZ/1V	563	0.95	0.80	101
CLNR-6045-151□	150	M N	100KHZ/1V	754	0.8	0.70	151
CLNR-6045-221□	220	M N	100KHZ/1V	1084	0.7	0.59	221
CLNR-6045-331□	330	M N	100KHZ/1V	1651	0.57	0.57	331
CLNR-6045-471□	470	M N	100KHZ/1V	2340	0.5	0.42	471
CLNR-6045-681□	680	M N	100KHZ/1V	3250	0.42	0.33	681
CLNR-6045-102□	1000	M N	100KHZ/1V	5850	0.3	0.30	102

(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

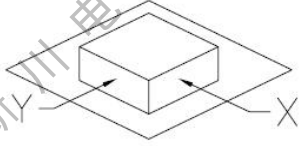
(4).Operating temp.: -40°C to +125°C

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

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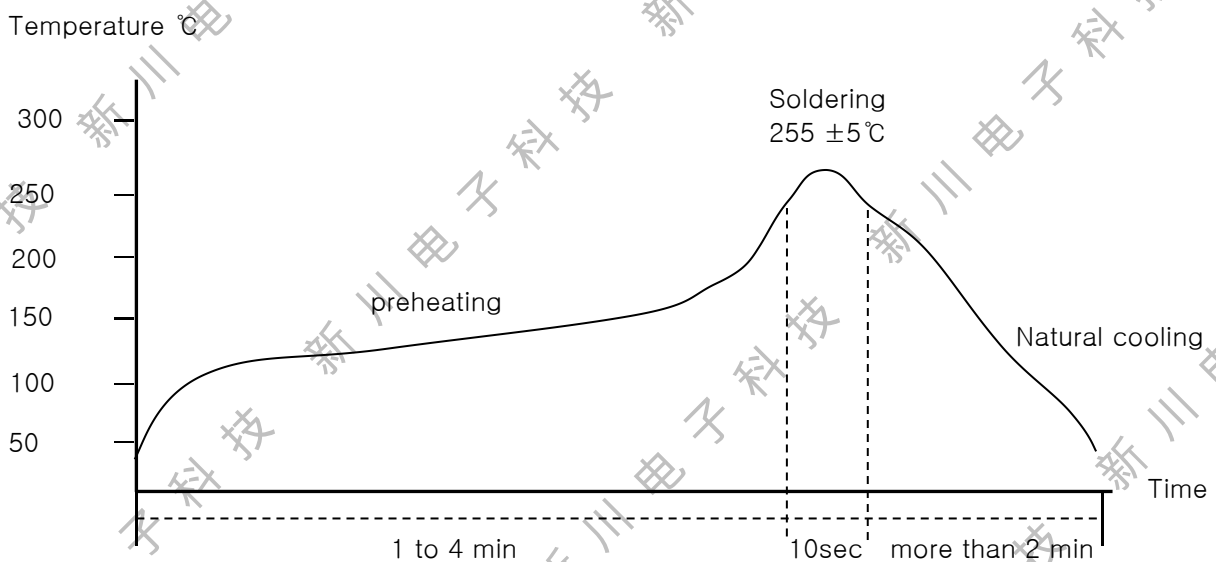
五.可靠性测试/RELIABILITY TESTING

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



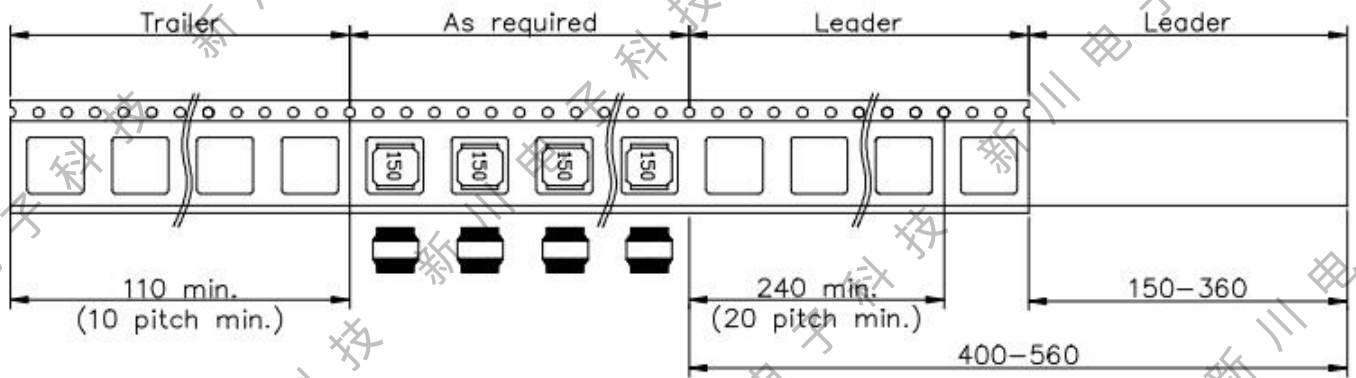
Temperature and humidity . After that , no mechanical and electrical defect should be found .

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六.材料清单/MATERIAL LIST

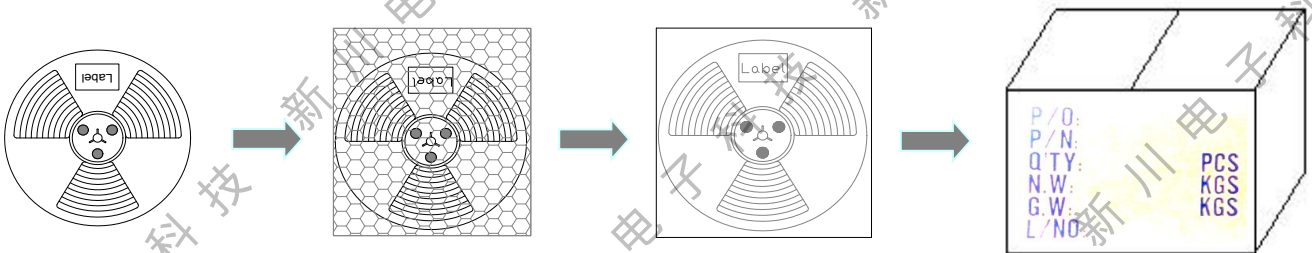
NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	WIRE	P180 G1
3	ADHESIVE	NR-3614
4	TIN	107H
5	INK	BLACK

七.编带规格/TAPING SPECIFICATIONS



Tape width	Distance	Pull-of force
16 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：4500PCS/盒

外箱，数量：22500PCS/箱
不足整箱用内盒或填充物
装满