



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

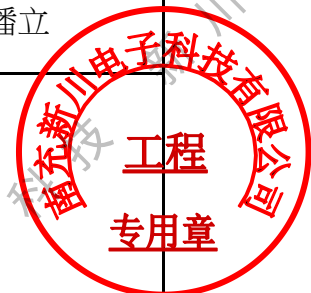
SPECIFICATION FOR APPROVAL

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>	CLPS-5030 SERIES
文件编号 <i>FILE NO.</i>	SP-18121802

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	陈尧	潘立

生产工厂：南充川磊电子科技有限公司
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承认书/SPECIFICATION FOR APPROVAL

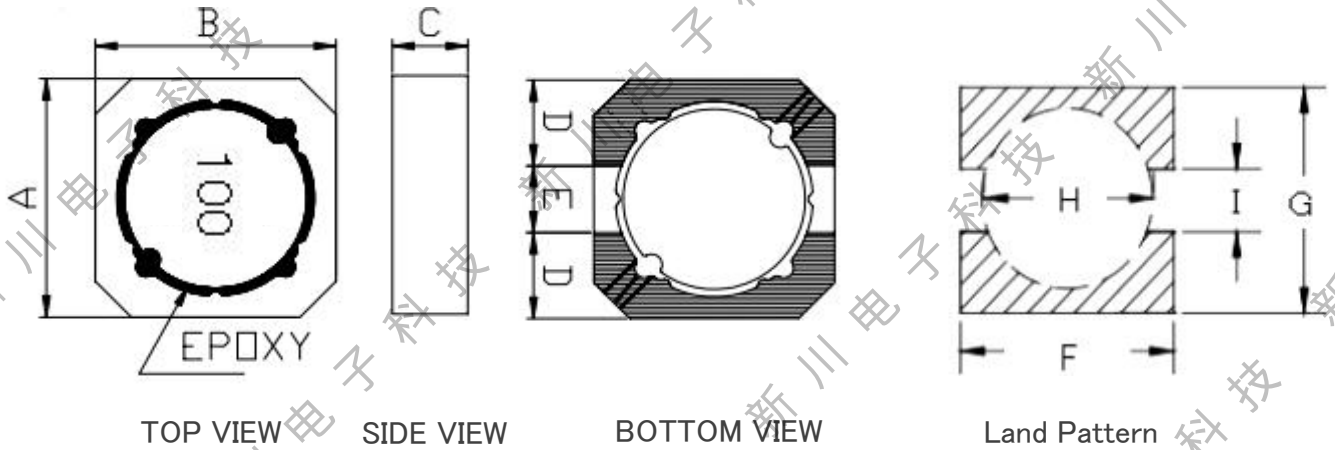
客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	-----	版别 REV.	A
产品类型 PRODUCT TYPE	Shielded Power Inductors	新川品名 OURS P/N	CLPS-5030 SERIES	文件编号 FILE NO.	SP-18124802

修改记录/MODIFY RECORDS

版别 REV.	变更编号 ECN NO.	修改内容 MODIFY CONTENT	拟制 DRAWING	审核 CHECKED	批准 APPROVED
A		新发行	潘立	陈尧	程志华

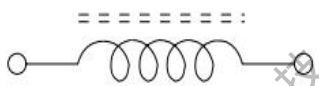
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一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	F	G	H	I
DIM	5.0	5.0	3.0	1.75	1.5	5.4	5.4	3.8	1.5
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：白色Gulim字体

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
CLPS-5030-1R2□	1.2	N	100K/0.1V	40	3.5	2.65	1R2
CLPS-5030-2R2□	2.2	N	100K/0.1V	57	3.1	2.15	2R2
CLPS-5030-3R3□	3.3	N	100K/0.1V	66	2.5	1.80	3R3
CLPS-5030-4R7□	4.7	N	100K/0.1V	83	2	1.75	4R7
CLPS-5030-6R8□	6.8	N	100K/0.1V	99	1.7	1.60	6R8
CLPS-5030-8R2□	8.2	N	100K/0.1V	120	1.6	1.50	8R2
CLPS-5030-100□	10	M N	100K/0.1V	150	1.5	1.40	100
CLPS-5030-120□	15	M N	100K/0.1V	160	1.4	1.30	120
CLPS-5030-150□	15	M N	100K/0.1V	175	1.3	1.20	150
CLPS-5030-220□	22	M N	100K/0.1V	190	1	1.10	220
CLPS-5030-270□	27	M N	100K/0.1V	270	0.9	1.00	270

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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
CLPS-5030-330□	33	M N	100K/0.1V	350	0.8	0.90	330
CLPS-5030-470□	47	M N	100K/0.1V	500	0.75	0.75	470
CLPS-5030-560□	56	M N	100K/0.1V	650	0.65	0.65	560
CLPS-5030-680□	68	M N	100K/0.1V	750	0.55	0.60	680
CLPS-5030-101□	100	M	100K/0.1V	900	0.45	0.55	101
CLPS-5030-221□	220	M	100K/0.1V	1450	0.2	0.40	221
CLPS-5030-331□	330	M	100K/0.1V	1800	0.17	0.35	331
CLPS-5030-821□	820	M	100K/0.1V	5000	0.12	0.25	821
CLPS-5030-102□	1000	M	100K/0.1V	5200	0.1	0.20	102

(1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & $\Delta L/L0A \leq 30\%$ 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.

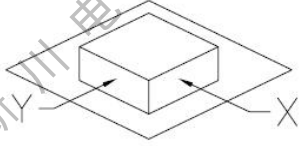
五.材料清单/MATERIAL LIST

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

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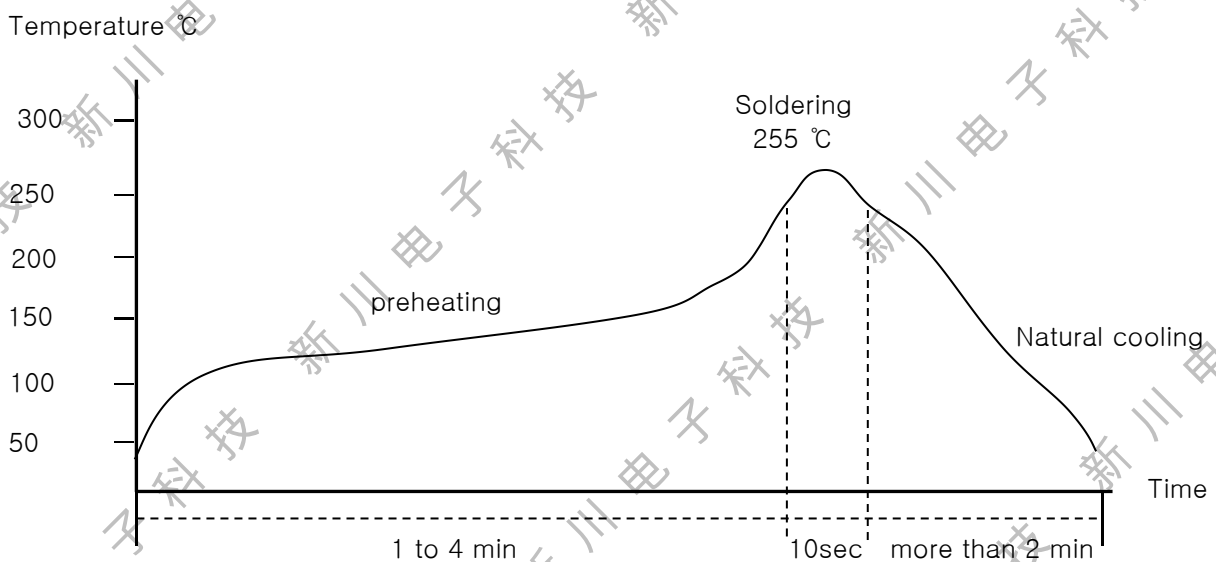
六.可靠性测试/RELIABILITY TESTING

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

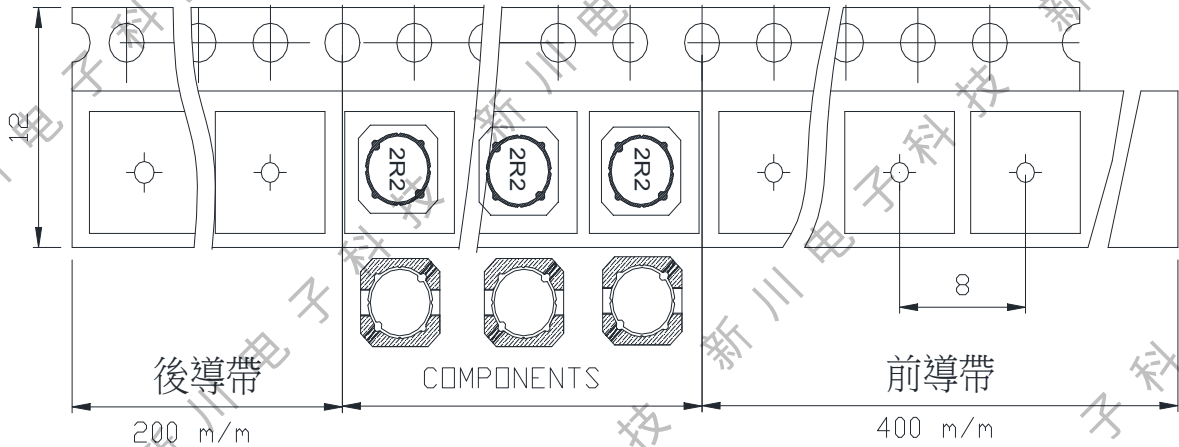
IR Reflow profile



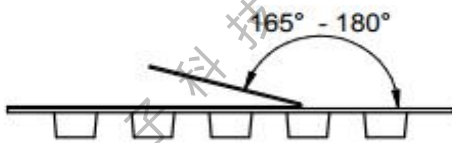
Temperature and humidity . After that , no mechanical and electrical defect should be found .

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七.编带规格/TAPING SPECIFICATIONS

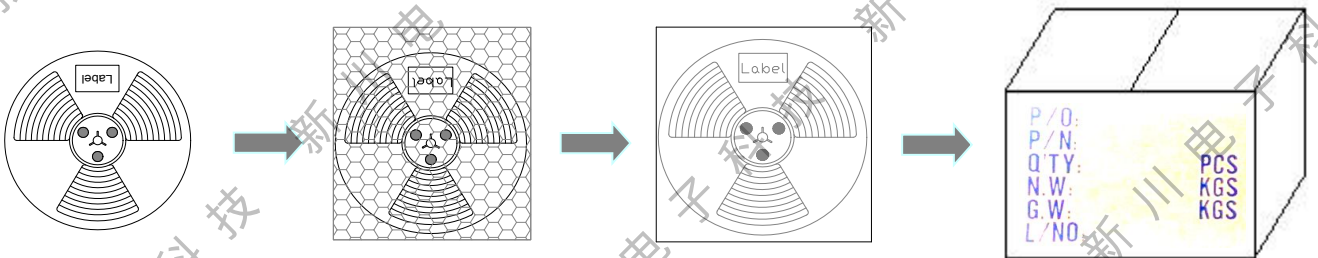


Transparent carrier and cover tape/透明载带和自粘上带



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：2000PCS/盘

PE袋
数量：2000PCS/袋

内盒
数量：8000PCS/盒

外箱，数量：40000PCS/箱
不足整箱用内盒或填充物
装满