



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

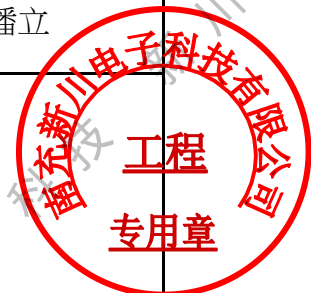
SPECIFICATION FOR APPROVAL

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-5020 SERIES
文件编号 <i>FILE NO.</i>	SP-18112102

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

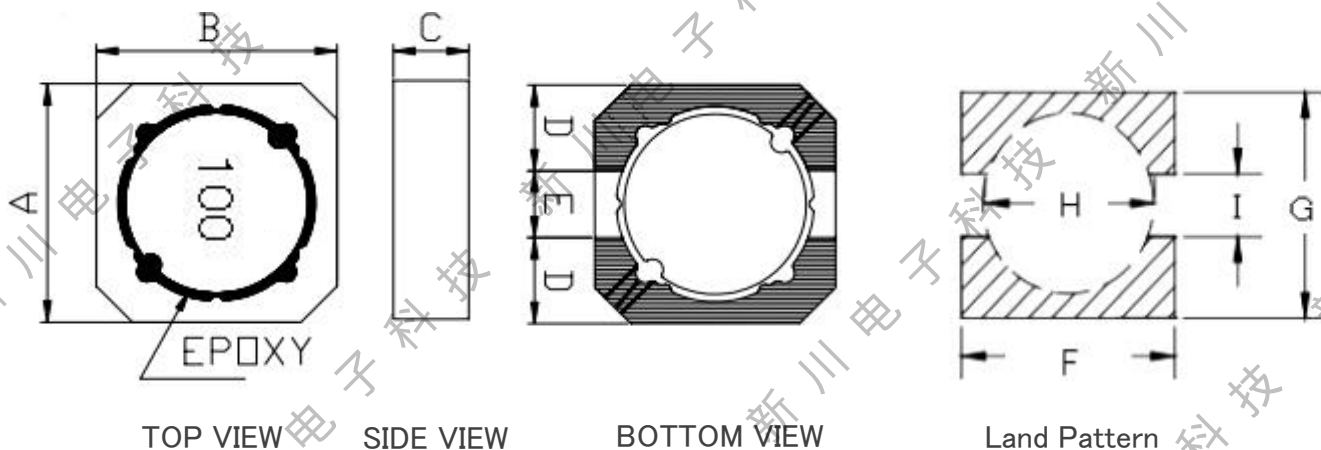
批准 <i>APPROVED</i>	确认 <i>CHECKED</i>	作成 <i>DESIGN</i>
程志华	陈尧	潘立

生产工厂：南充川磊电子科技有限公司
 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



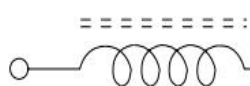
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一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	F	G	H	I
DIM	5.0	5.0	2.0	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-5020-R33□	0.33	N	100K/0.1V	11	5.8	6.00	R33
CLPS-5020-R68□	0.68	N	100K/0.1V	15	4	5.20	R68
CLPS-5020-1R0□	1.0	N	100K/0.1V	25	3.5	4.00	1R0
CLPS-5020-1R5□	1.5	N	100K/0.1V	35	3.2	3.30	1R5
CLPS-5020-2R2□	2.2	N	100K/0.1V	55	2.7	2.75	2R2
CLPS-5020-3R3□	3.3	N	100K/0.1V	65	2.4	2.50	3R3
CLPS-5020-4R7□	4.7	N	100K/0.1V	80	2.1	2.00	4R7
CLPS-5020-5R6□	5.6	M N	100K/0.1V	90	1.95	1.90	5R6
CLPS-5020-6R8□	6.8	M N	100K/0.1V	105	1.8	1.70	6R8
CLPS-5020-100□	10	M N	100K/0.1V	150	1.4	1.50	100
CLPS-5020-150□	15	M N	100K/0.1V	270	1.1	1.20	150

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Part Number	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR (mΩ) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
CLPS-5020-220□	22	M N	100K/0.1V	350	0.78	0.90	220
CLPS-5020-330□	33	M N	100K/0.1V	480	0.65	0.80	330
CLPS-5020-470□	47	M N	100K/0.1V	750	0.6	0.70	470
CLPS-5020-101□	100	M	100K/0.1V	1210	0.34	0.55	101
CLPS-5020-121□	120	M	100K/0.1V	1600	0.3	0.48	121
CLPS-5020-151□	150	M	100K/0.1V	2250	0.28	0.40	151
CLPS-5020-221□	220	M	100K/0.1V	3300	0.26	0.37	221

(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

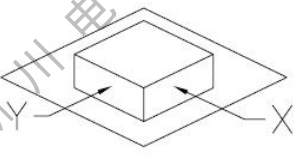
(5).Storage temp.: -20°C up to +40°C, 75% RH max.

五.材料清单/MATERIAL LIST

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

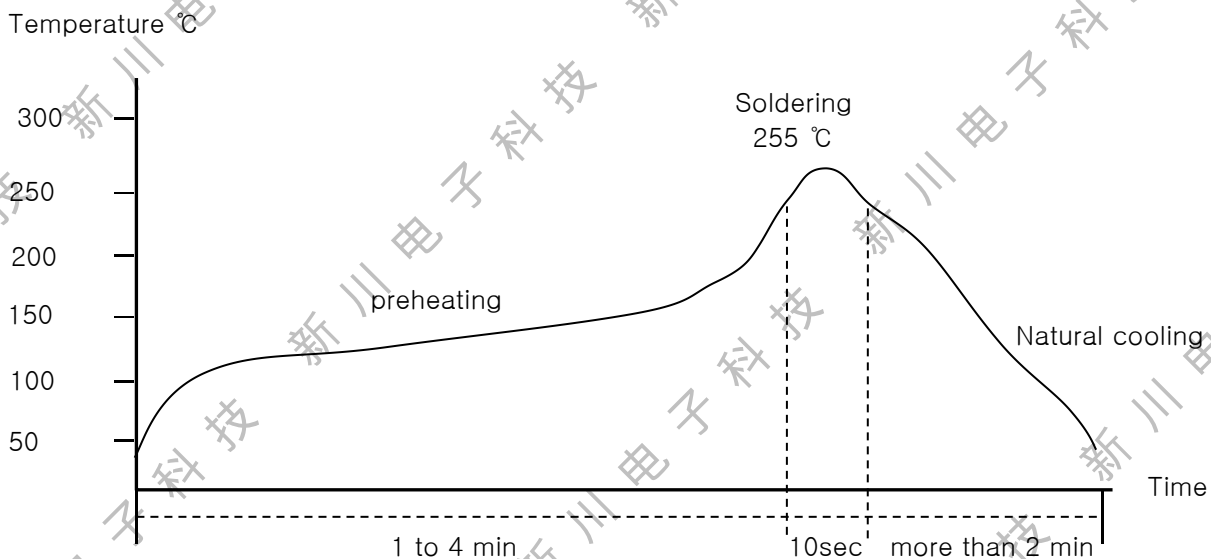
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六.可靠性测试/RELIABILITY TESTING

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

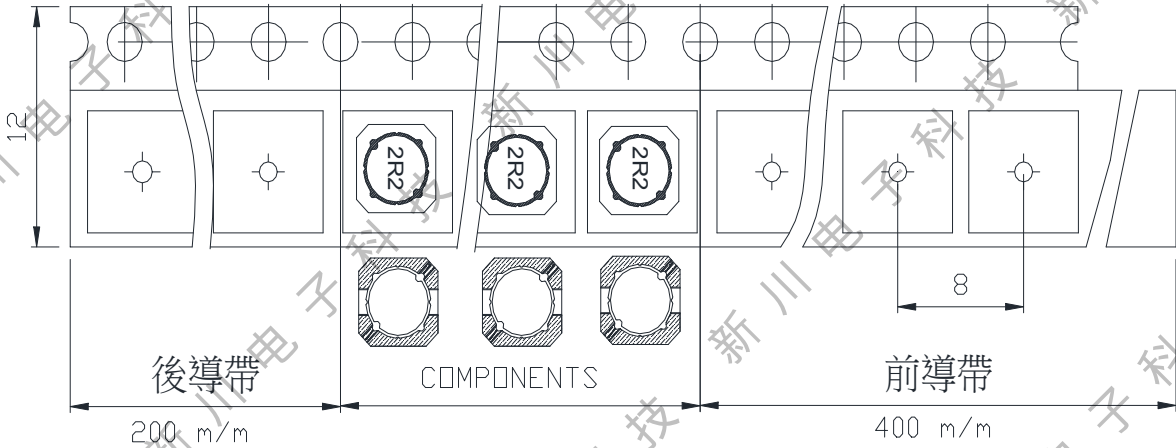
IR Reflow profile



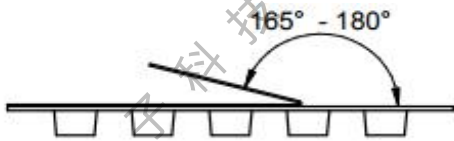
Temperature and humidity . After that , no mechanical and electrical defect should be found .

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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

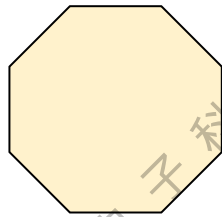


Tape width	Distance	Pull-of force
12 mm	8 mm	10~120g

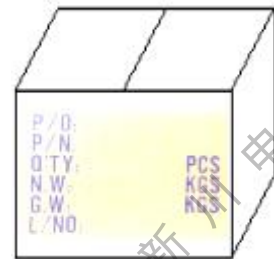
八.包装方式/PACKING LIST



轮盘：7'(直径178mm)
数量：900PCS/盘



内盒/PE袋
数量：3600PCS/盒



外箱，数量：36000PCS/箱
不足整箱用内盒或填充物
装满