



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

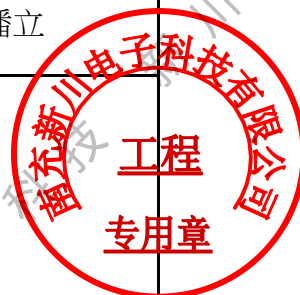
SPECIFICATION FOR APPROVAL

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-6020 SERIES
文件编号 <i>FILE NO.</i>	SP-18102204

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

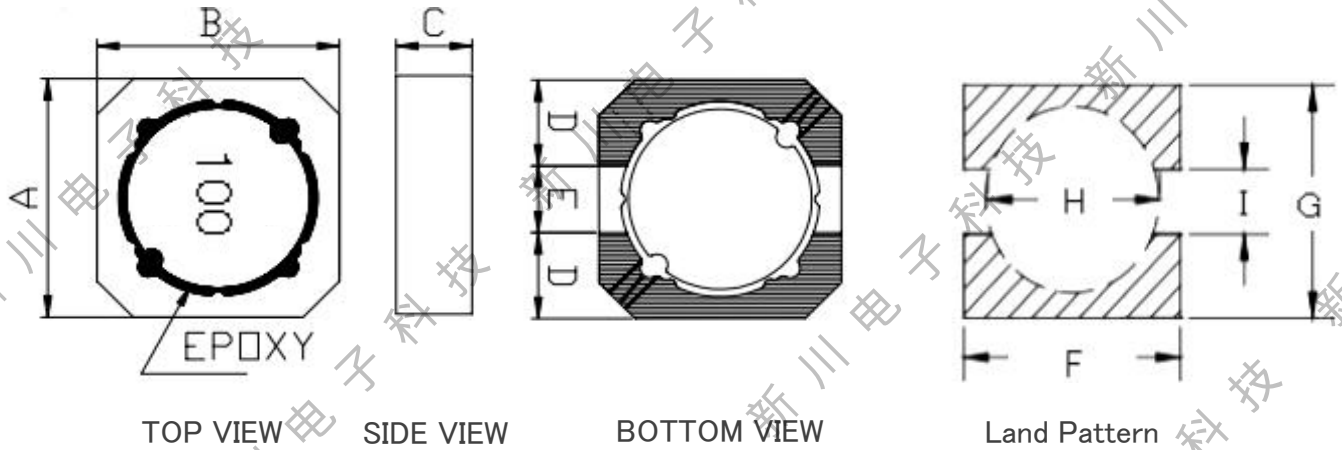
生产工厂：南充川磊电子科技有限公司  
 销售公司：南充新川电子科技有限公司  
 业务专线：0817-2111163/18681773184  
 邮 件：threeayer\_sales@163.com  
 地 址：四川省南充市顺庆区潞华工业园区华生东路





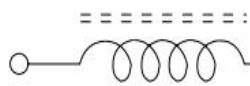
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一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	F	G	H	I
DIM	6.0	6.0	2.0	2.0	2.0	6.6	6.6	4.6	2.0
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-6020-1R3□	1.3	N	100K/0.1V	30.5	3.2	3.0	1R3
CLPS-6020-1R5□	1.5	N	100K/0.1V	30.5	3.2	3.0	1R5
CLPS-6020-1R8□	1.8	N	100K/0.1V	37.5	3	2.6	1R8
CLPS-6020-2R2□	2.2	N	100K/0.1V	40	2.7	2.4	2R2
CLPS-6020-2R5□	2.5	N	100K/0.1V	40	2.7	2.4	2R5
CLPS-6020-3R3□	3.3	N	100K/0.1V	60	2.5	2.3	3R3
CLPS-6020-4R7□	4.7	N	100K/0.1V	70	2.1	2.0	4R7
CLPS-6020-6R2□	6.2	M N	100K/0.1V	85	1.9	1.8	6R2
CLPS-6020-6R8□	6.8	M N	100K/0.1V	85	1.9	1.8	6R8
CLPS-6020-8R2□	8.2	M N	100K/0.1V	125	1.7	1.5	8R2
CLPS-6020-100□	10	M N	100K/0.1V	150	1.4	1.2	100

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四.电气特性/ELECTRICAL CHARACTERISTIC

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CLPS-6020-150□	15	M N	100K/0.1V	220	1.1	1.1	150
CLPS-6020-220□	22	M N	100K/0.1V	320	1	0.9	220
CLPS-6020-330□	33	M N	100K/0.1V	450	0.9	0.8	330
CLPS-6020-470□	47	M N	100K/0.1V	600	0.85	0.7	470
CLPS-6020-101□	100	M	100K/0.1V	1200	0.5	0.45	101

(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

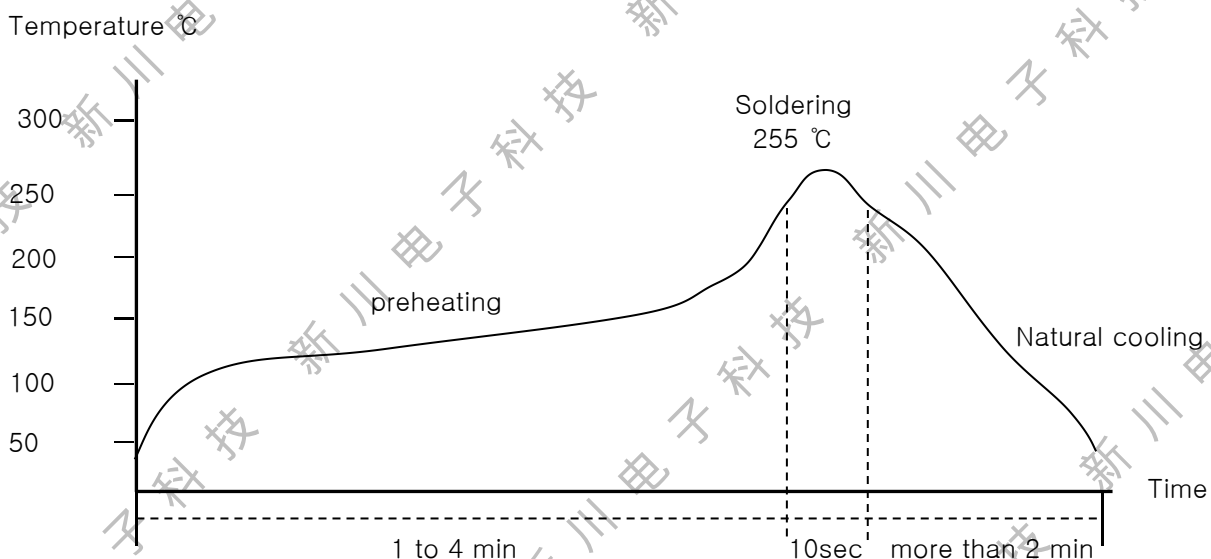
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六.可靠性测试/RELIABILITY TESTING

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

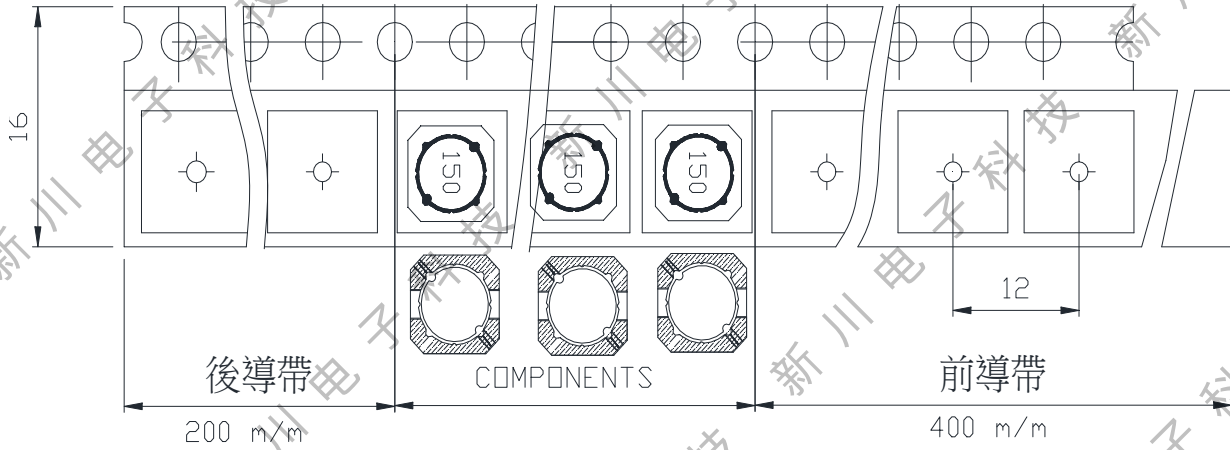
IR Reflow profile



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

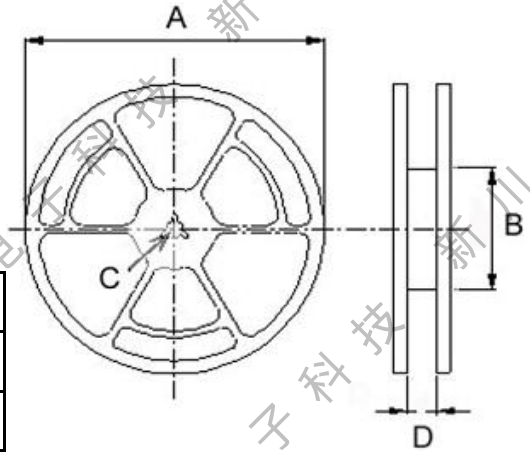
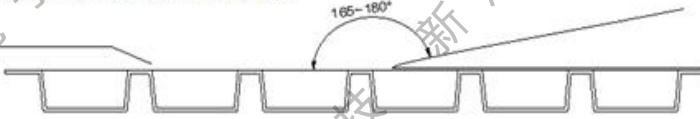
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七.编带规格/TAPING SPECIFICATIONS



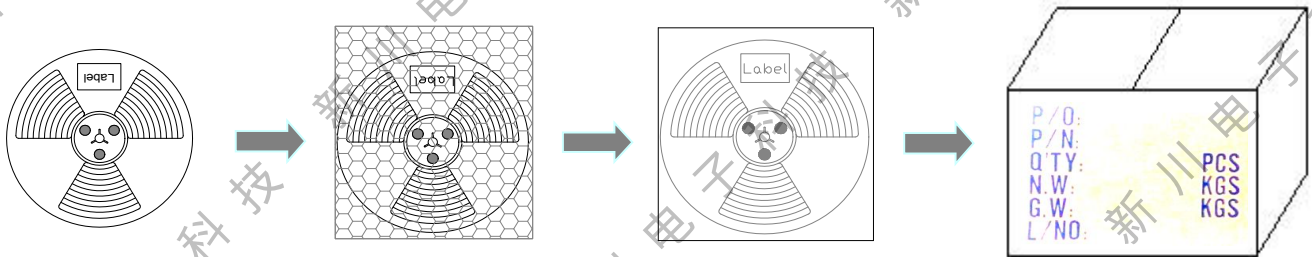
Transparent carrier and cover tape/透明载带和自粘上带

Adhesive strength of cover tape is 20 to 120 gf  
The conduction band direction



Reel Dimensions (Unit: mm)				Quantity
A	B	C	D	Pcs/Reel
330	100	13	16.5	2000

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：6000PCS/盒

外箱，数量：30000PCS/箱  
不足整箱用内盒或填充物  
装满