



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 Shielded Power Inductors  
PRODUCT TYPE

客户料号 -----  
CUSTOMER P/N

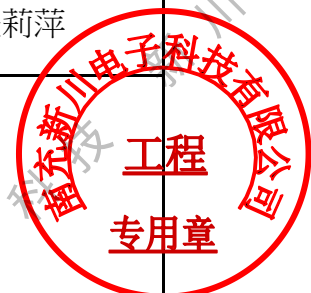
川磊料号 CLPS-6035 SERIES  
OURS P/N

文件编号 SP-18121803  
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	何利	张莉萍

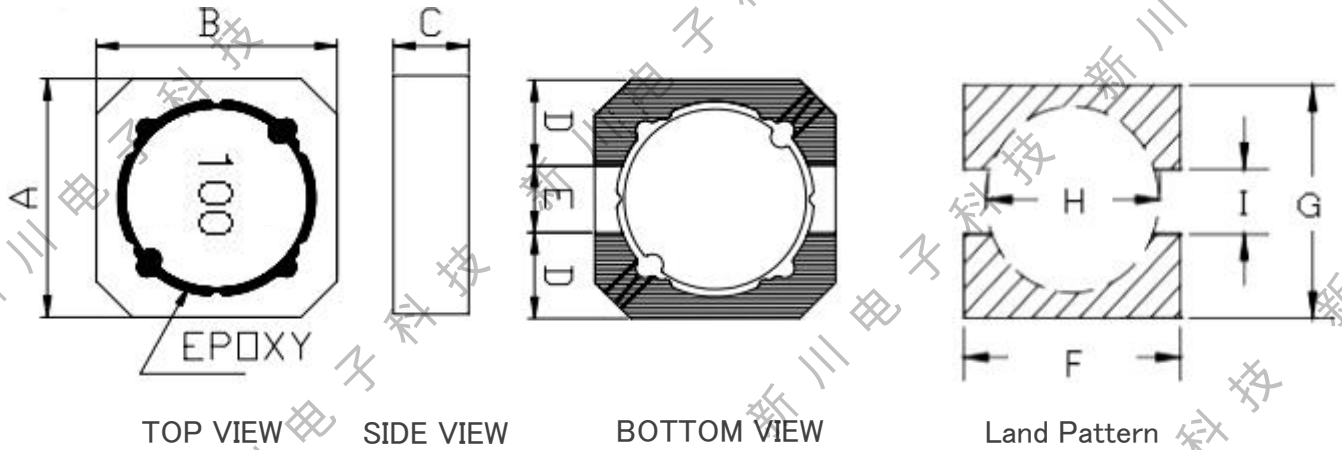
生产工厂：南充川磊电子科技有限公司  
销售公司：南充新川电子科技有限公司  
业务专线：0817-2111163/18681773184  
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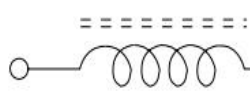
客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	-----	版别 REV.	1.1
产品类型 PRODUCT TYPE	Shielded Power Inductors	新川品名 OURS P/N	CLPS-6035 SERIES	文件编号 FILE NO.	SP-18121803

一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	F	G	H	I
DIM	6.0	6.0	3.5	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-6035-6R8□	6.8	M N	100K/0.1V	75	2.8	1.90	6R8
CLPS-6035-8R2□	8.2	M N	100K/0.1V	95	2.7	1.85	8R2
CLPS-6035-100□	10	M N	100K/0.1V	100	2.5	1.80	100
CLPS-6035-120□	12	M N	100K/0.1V	110	2.3	1.75	120
CLPS-6035-150□	15	M N	100K/0.1V	125	2	1.70	150
CLPS-6035-180□	18	M N	100K/0.1V	140	1.9	1.65	180
CLPS-6035-220□	22	M N	100K/0.1V	160	1.7	1.60	220
CLPS-6035-330□	33	M N	100K/0.1V	180	1.5	1.30	330
CLPS-6035-470□	47	M N	100K/0.1V	245	1.2	1.15	470
CLPS-6035-560□	56	M N	100K/0.1V	280	1.1	1.07	560
CLPS-6035-680□	68	M N	100K/0.1V	345	0.96	1.00	680

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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-6035-820□	82	M N	100K/0.1V	315	0.55	0.95	820
CLPS-6035-101□	100	M	100K/0.1V	375	0.54	0.90	101
CLPS-6035-121□	120	M	100K/0.1V	435	0.51	0.80	121
CLPS-6035-151□	150	M	100K/0.1V	535	0.45	0.73	151
CLPS-6035-221□	220	M	100K/0.1V	820	0.37	0.64	221
CLPS-6035-331□	330	M	100K/0.1V	1200	0.3	0.50	331
CLPS-6035-471□	470	M	100K/0.1V	1600	0.26	0.43	471
CLPS-6035-561□	560	M	100K/0.1V	2000	0.23	0.38	561
CLPS-6035-681□	680	M	100K/0.1V	2200	0.21	0.37	681
CLPS-6035-821□	820	M	100K/0.1V	2700	0.19	0.33	821
CLPS-6035-102□	1000	M	100K/0.1V	3400	0.18	0.30	102
CLPS-6035-152□	1500	M	100K/0.1V	4600	0.14	0.26	152
CLPS-6035-182□	1800	M	100K/0.1V	5420	0.13	0.23	182
CLPS-6035-222□	2200	M	100K/0.1V	6700	0.11	0.22	222
CLPS-6035-472□	4700	M	100K/0.1V	14500	0.084	0.15	472

(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.

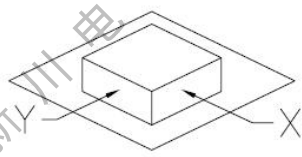
## 五.材料清单/MATERIAL LIST

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

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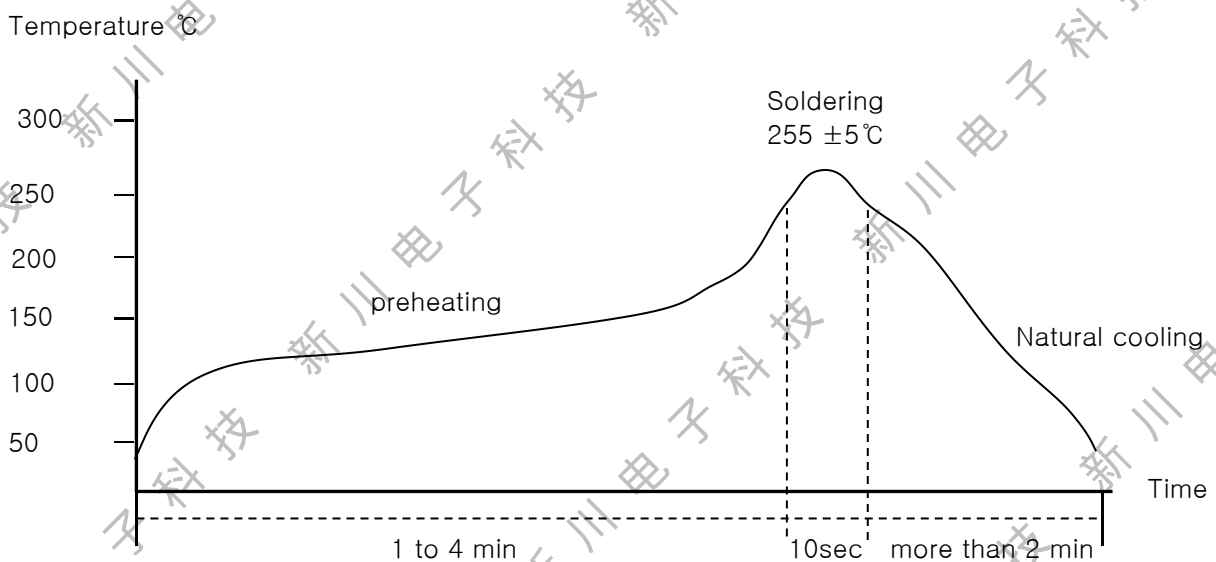
六.可靠性测试/RELIABILITY TESTING

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

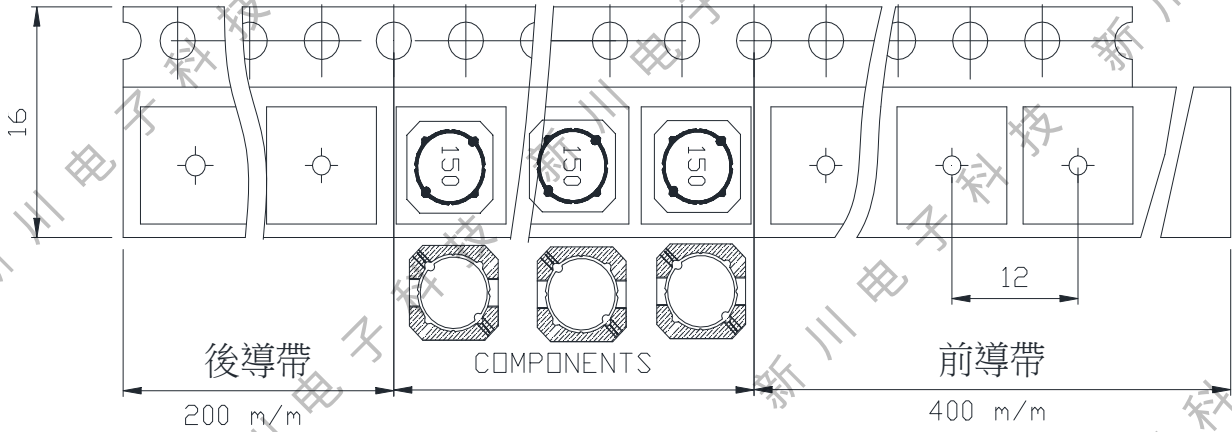
IR Reflow profile



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

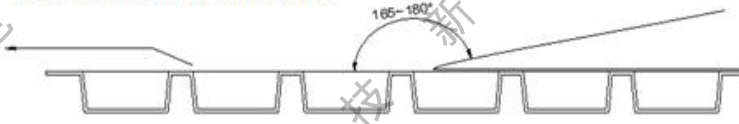
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七.编带规格/TAPING SPECIFICATIONS

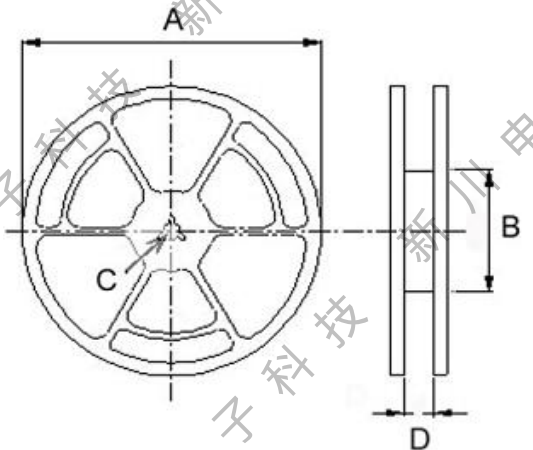


Transparent carrier and cover tape/透明载带和自粘上带

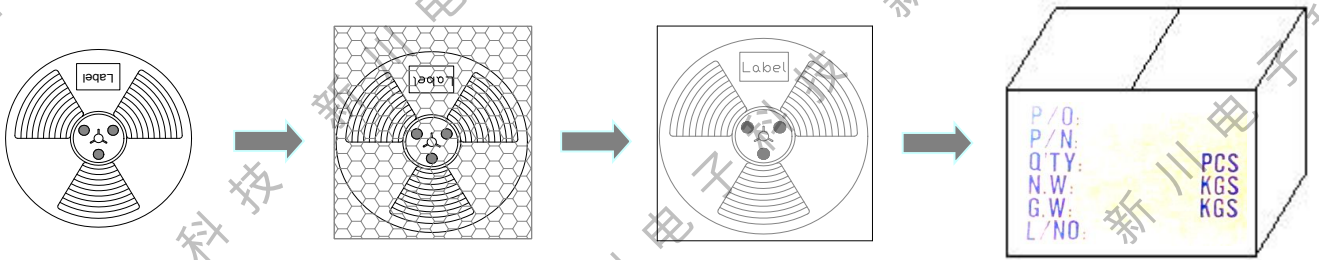
Adhesive strength of cover tape is 20 to 120 gf  
The conduction band direction



Reel Dimensions (Unit: mm)				Quantity
A	B	C	D	Pcs/Reel
330	100	13	16.5	1500



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