



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

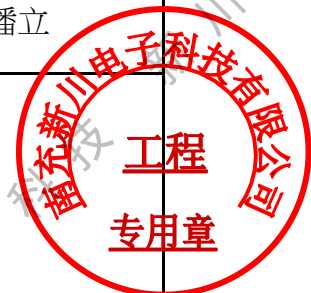
川磊料号 CLPS-3012 SERIES
OURS P/N

文件编号 SP-18102201
FILE NO.

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

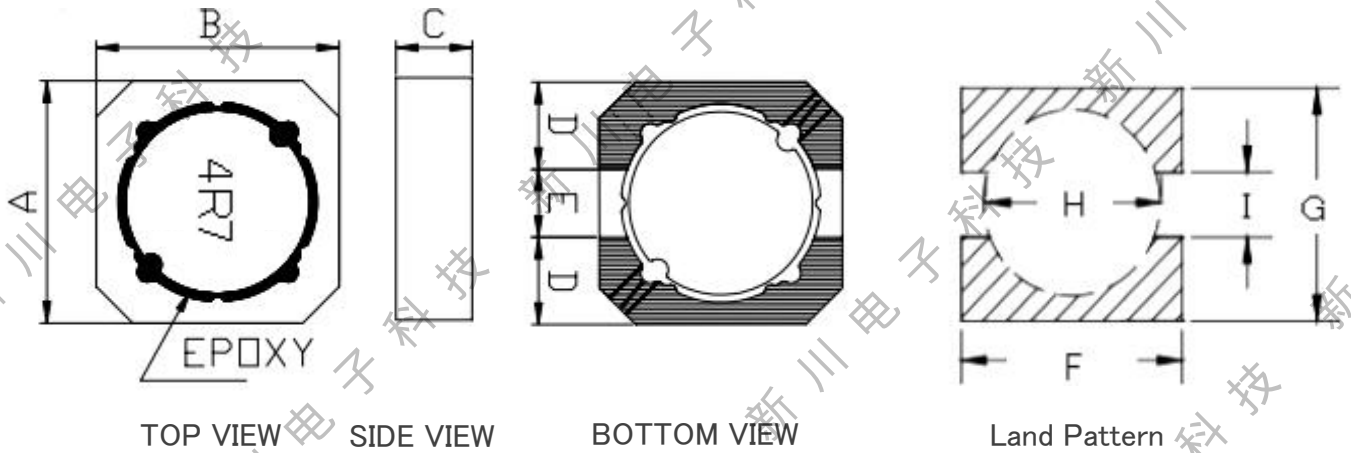
批准 APPROVED	确认 CHECKED	作成 DESIGN
程志华	陈尧	潘立

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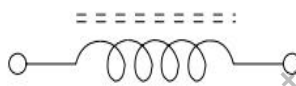
客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	-----	版别 REV.	A
产品类型 PRODUCT TYPE	Shielded Power Inductors	新川品名 OURS P/N	CLPS-3012 SERIES	文件编号 FILE NO.	SP-18102201

一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	F	G	H	I
DIM	3.0	3.0	1.2	0.9	1.2	3.3	3.3	2.2	1.0
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-3012-1R0□	1.0	N	100K/0.1V	80	1.8	1.80	1R0
CLPS-3012-1R2□	1.2	N	100K/0.1V	95	1.65	1.70	1R2
CLPS-3012-1R5□	1.5	N	100K/0.1V	110	1.5	1.65	1R5
CLPS-3012-2R0□	2.0	N	100K/0.1V	150	1.3	1.30	2R0
CLPS-3012-2R2□	2.2	N	100K/0.1V	150	1.3	1.30	2R2
CLPS-3012-3R3□	3.3	N	100K/0.1V	180	1	1.20	3R3
CLPS-3012-4R7□	4.7	M N	100K/0.1V	280	0.85	1.05	4R7
CLPS-3012-5R6□	5.6	M N	100K/0.1V	360	0.8	0.85	5R6
CLPS-3012-6R8□	6.8	M N	100K/0.1V	420	0.75	0.75	6R8
CLPS-3012-8R2□	8.2	M N	100K/0.1V	550	0.65	0.65	8R2
CLPS-3012-100□	10	M N	100K/0.1V	620	0.57	0.60	100

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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-3012-150□	15	M N	100K/0.1V	800	0.5	0.50	150
CLPS-3012-220□	22	M N	100K/0.1V	1200	0.4	0.42	220

- (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

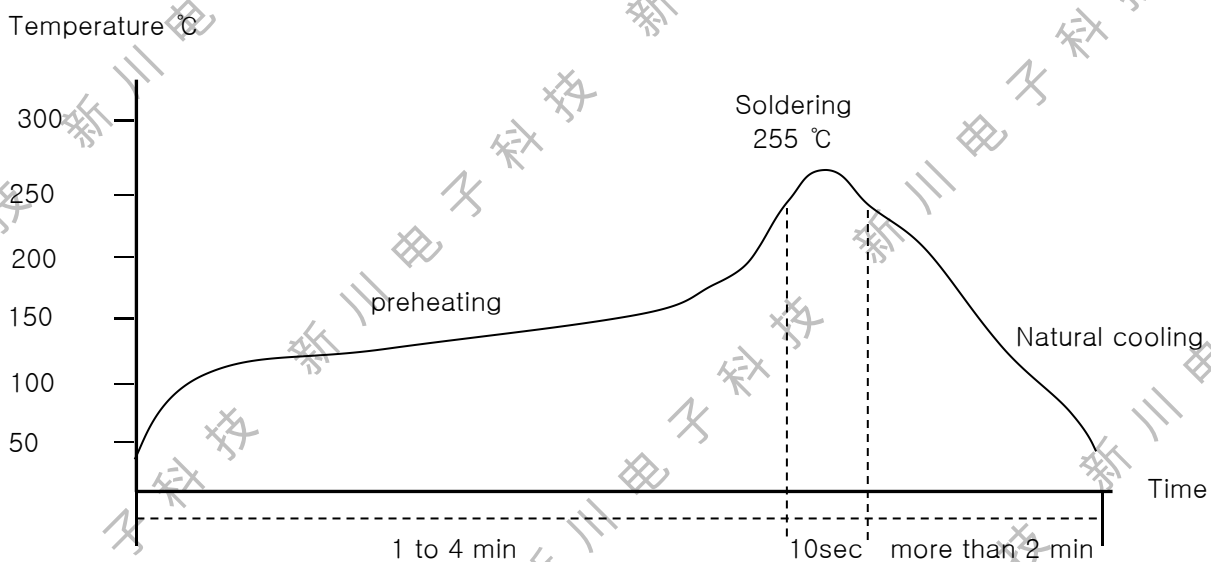
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六.可靠性测试/RELIABILITY TESTING

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

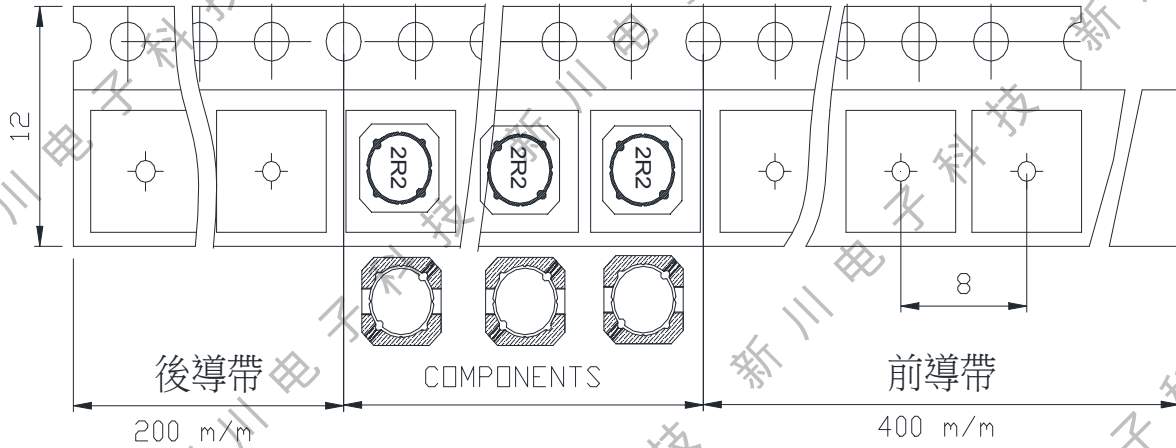
IR Reflow profile



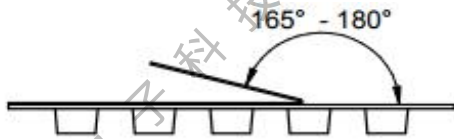
Temperature and humidity . After that , no mechanical and electrical defect should be found .

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七.编带规格/TAPING SPECIFICATIONS

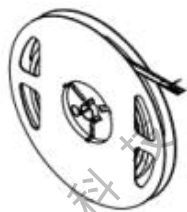


Transparent carrier and cover tape/透明载带和自粘上带

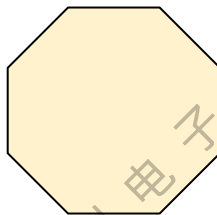


Tape width	Distance	Pull-of force
12 mm	8 mm	10~120g

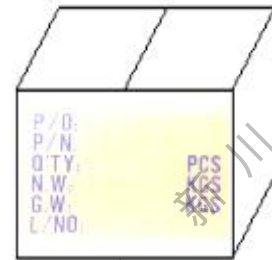
八.包装方式/PACKING LIST



轮盘：7'(直径178mm)
数量：1500PCS/盘



内盒/PE袋
数量：6000PCS/盒



外箱，数量：60000PCS/箱
不足整箱用内盒或填充物装满