



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

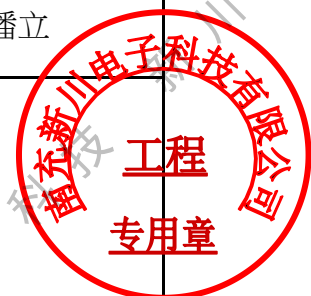
SPECIFICATION FOR APPROVAL

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-4018 SERIES
文件编号 <i>FILE NO.</i>	SP-18120604

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

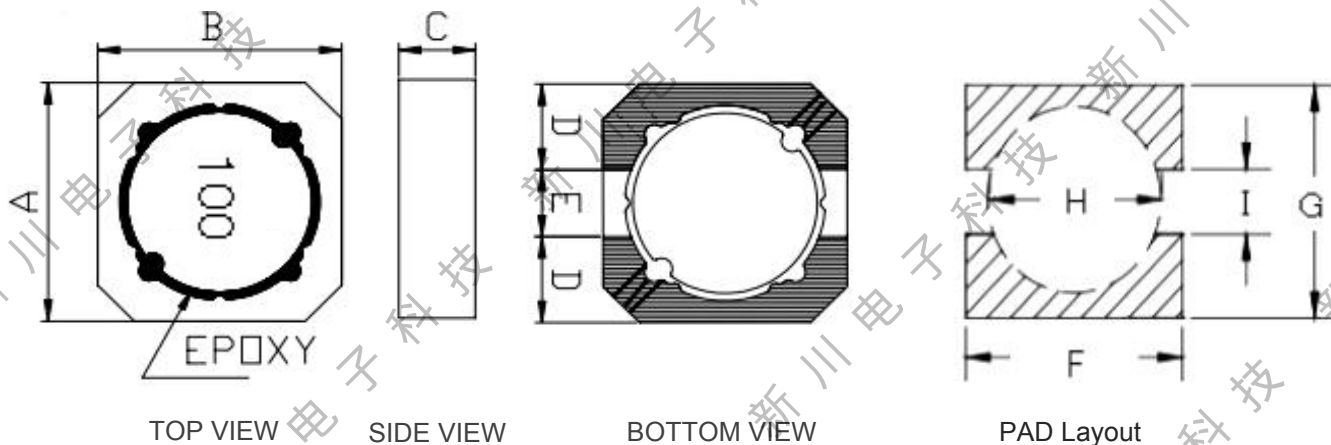
批准 <i>APPROVED</i>	确认 <i>CHECKED</i>	作成 <i>DESIGN</i>
程志华	陈尧	潘立

生产工厂：南充川磊电子科技有限公司
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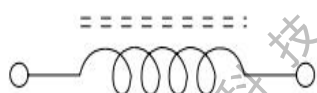
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一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	F	G	H	I
DIM	4.0	4.0	1.8	1.1	1.8	4.4	4.4	2.9	1.8
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-4018-1R0□	1.0	N	100K/0.1V	40	3.2	2.7	1R0
CLPS-4018-1R5□	1.5	N	100K/0.1V	50	2.5	2.3	1R5
CLPS-4018-2R2□	2.2	N	100K/0.1V	70	2.4	2.2	2R2
CLPS-4018-3R3□	3.3	N	100K/0.1V	80	2	2.0	3R3
CLPS-4018-4R7□	4.7	N	100K/0.1V	125	1.5	1.5	4R7
CLPS-4018-5R6□	5.6	N	100K/0.1V	135	1.2	1.4	5R6
CLPS-4018-6R8□	6.8	N	100K/0.1V	150	1.1	1.3	6R8
CLPS-4018-100□	10	M N	100K/0.1V	200	1	1.1	100
CLPS-4018-150□	15	M N	100K/0.1V	280	0.7	0.9	150
CLPS-4018-180□	18	M N	100K/0.1V	300	0.6	0.7	180
CLPS-4018-220□	22	M N	100K/0.1V	360	0.5	0.6	220

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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-4018-330□	33	M N	100K/0.1V	460	0.45	0.65	330
CLPS-4018-470□	47	M N	100K/0.1V	750	0.4	0.55	470
CLPS-4018-680□	68	M N	100K/0.1V	1070	0.35	0.45	680
CLPS-4018-820□	82	M N	100K/0.1V	1220	0.32	0.40	820
CLPS-4018-101□	100	M	100K/0.1V	1640	0.3	0.35	101
CLPS-4018-121□	120	M	100K/0.1V	1880	0.25	0.30	121
CLPS-4018-151□	150	M	100K/0.1V	2450	0.2	0.25	151
CLPS-4018-181□	180	M	100K/0.1V	3000	0.18	0.22	181
CLPS-4018-221□	220	M	100K/0.1V	4200	0.16	0.20	221
CLPS-4018-331□	330	M	100K/0.1V	5900	0.14	0.18	331
CLPS-4018-471□	470	M	100K/0.1V	7100	0.12	0.16	471
CLPS-4018-561□	560	M	100K/0.1V	10000	0.11	0.14	561
CLPS-4018-681□	680	M	100K/0.1V	11500	0.1	0.12	681

(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.

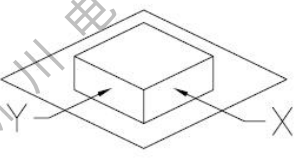
五.材料清单/MATERIAL LIST

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

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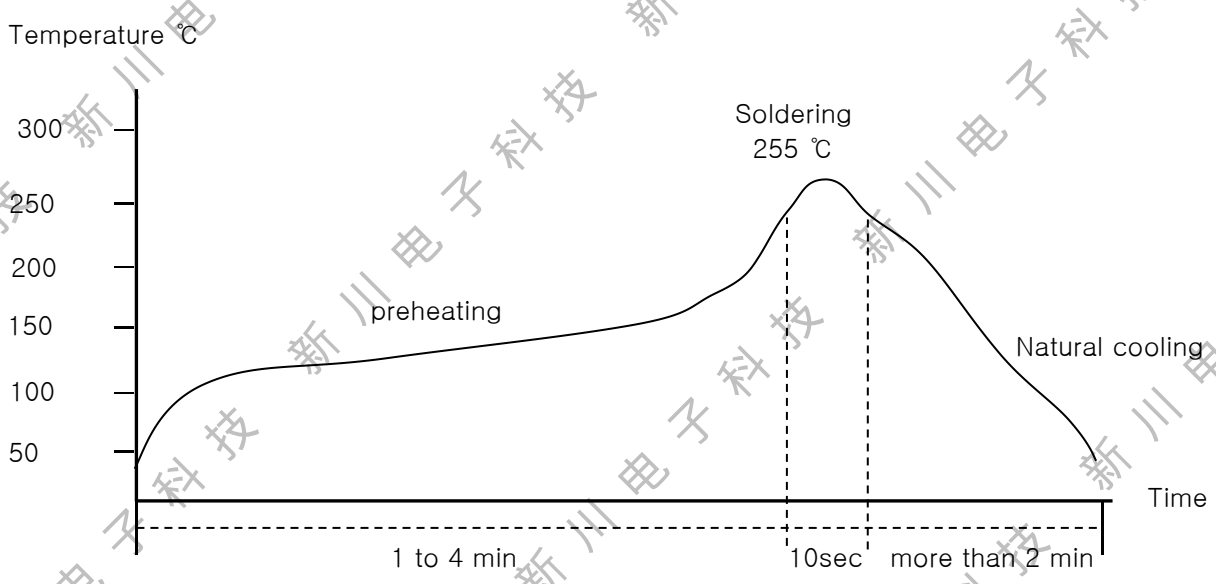
六.可靠性测试/RELIABILITY TESTING

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
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

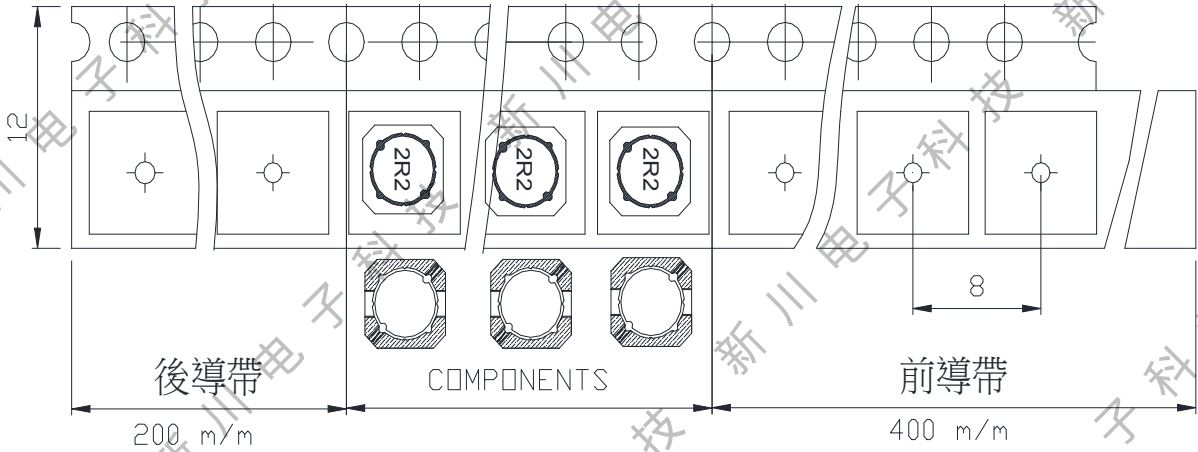
IR Reflow profile



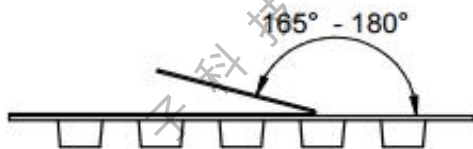
Temperature and humidity . After that , no mechanical and electrical defect should be found .

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七.编带规格/TAPING SPECIFICATIONS

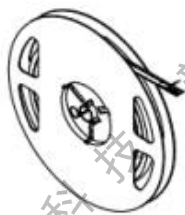


Transparent carrier and cover tape/透明载带和自粘上带

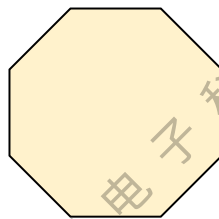


Tape width	Distance	Pull-of force
12 mm	8 mm	10~120g

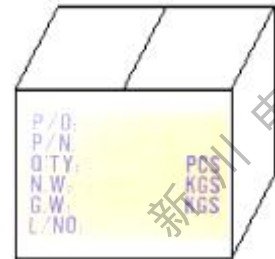
八.包装方式/PACKING LIST



轮盘：7'(直径178mm)
数量：1000PCS/盘



内盒/PE袋
数量：4000PCS/盒



外箱，数量：40000PCS/箱
不足整箱用内盒或填充物装满