



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

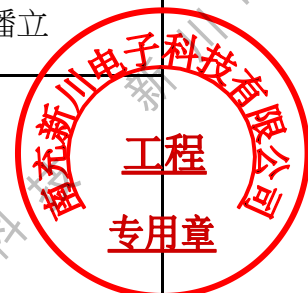
SPECIFICATION FOR APPROVAL

客户名称 <i>CUSTOMER NAME</i>	-----
产品类型 <i>PRODUCT TYPE</i>	High Current Cube Inductor
客户料号 <i>CUSTOMER PN</i>	-----
新川料号 <i>OURS PN</i>	CLSQ-1210B-SERIES
文件编号 <i>FILE NO.</i>	SP-18121203

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>		

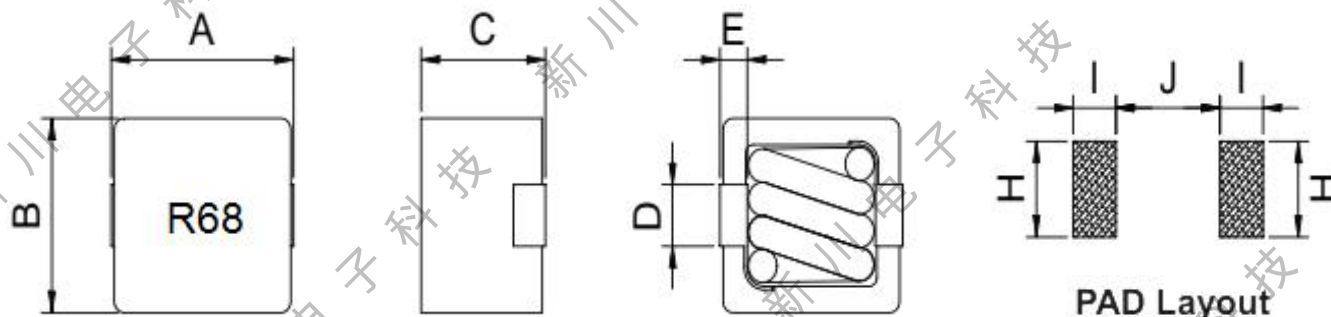
批准 <i>APPROVED</i>	确认 <i>CHECKED</i>	作成 <i>DESIGN</i>
程志华	陈尧	潘立

生产工厂：南充川磊电子科技有限公司
销售公司：南充新川电子科技有限公司
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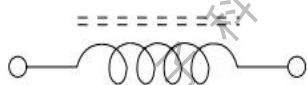
客户名称 CUSTOMER	-----	客产品名 CUSTOMER P/N	-----	版别 REV.	A
产品类型 PRODUCT TYPE	High Current Cube Inductor	新川品名 OURS P/N	CLSQ-1210B-SERIES	文件编号 FILE NO.	SP-18121203

一.外观图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	H	I	J		
DIM	12.5	11.7	10.0	3.5	2.0	5.4	2.9	7.0		
TOLE	Max	Max	Max	Ref	Ref	Ref	Ref	Ref		

二.电路图/CIRCUIT DIAGRAM



三.注意事项/NOTE :

- 1.印字：黑色
- 2.平整度：0.1MM MAX

四.电气特性/ELECTRICAL CHARACTERISTIC

Part Number	Inductance (uH)	Test Conditions	Rdc(mΩ) Max	IDC 1 (A) Typ	IDC 2(A) Typ	MARK
CLSQ-1210B-R22M	0.22 ±20%	100KHz/1V	1.5	55	37	R22
CLSQ-1210B-R33M	0.33 ±20%	100KHz/1V	1.5	45	37	R33
CLSQ-1210B-R47M	0.47 ±20%	100KHz/1V	1.8	45	37	R47
CLSQ-1210B-R56M	0.56 ±20%	100KHz/1V	1.8	35	35	R56
CLSQ-1210B-R68M	0.68 ±20%	100KHz/1V	1.8	33	35	R68
CLSQ-1210B-R82M	0.82 ±20%	100KHz/1V	2.4	31	30	R82
CLSQ-1210B-1R0M	1.00 ±20%	100KHz/1V	2.4	28	30	1R0

承认书/SPECIFICATION FOR APPROVAL

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四.电气特性/ELECTRICAL CHARACTERISTIC

Part Number	Inductance (uH)	Test Conditions	Rdc(mΩ) Max	IDC 1 (A) Typ	IDC 2(A) Typ	MARK
CLSQ-1210B-1R5M	1.5 ±20%	100KHz/1V	3.5	24	25	1R5
CLSQ-1210B-2R2M	2.2 ±20%	100KHz/1V	4.7	18	21	2R2
CLSQ-1210B-3R3M	3.3 ±20%	100KHz/1V	6.3	14	15	3R3
CLSQ-1210B-4R7M	4.7 ±20%	100KHz/1V	8.8	11	12	4R7
CLSQ-1210B-6R8M	6.8 ±20%	100KHz/1V	12.5	9	10	6R8
CLSQ-1210B-8R2M	8.2 ±20%	100KHz/1V	13.0	7	9	8R2
CLSQ-1210B-100M	10.0 ±20%	100KHz/1V	18.7	6	8	100

- (1).Saturation Current: Base on $\Delta L/L0A < 30\%$ Typ
- (2)Rated Current: Temperatur rise 40°C Typ
- (3).Operating Temperature: -40°C up to +125°C
- (4).Storage Temperature: -20°C up to +45°C, 75% RH max.

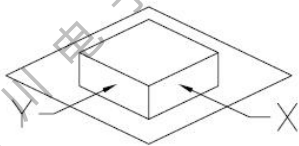
五.材料清单/MATERIAL LIST

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	BASE	C1100H P2
3	WIRE	1PEW
4	ADHESIVE	FK-6013
5	TIN	107H
6	INK	BLACK

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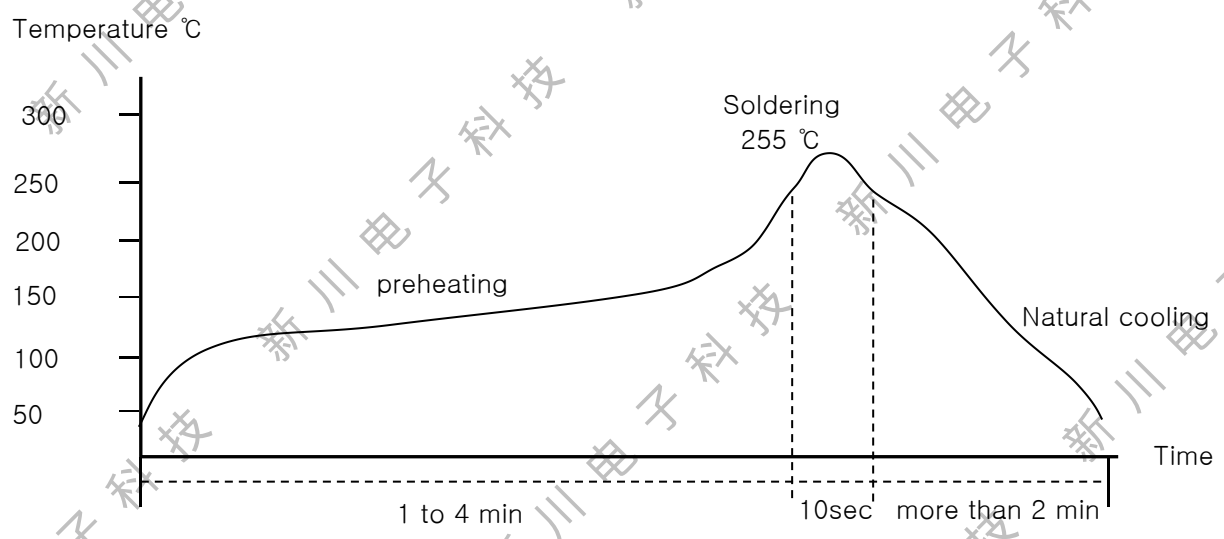
六.可靠性测试/RELIABILITY TESTING

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

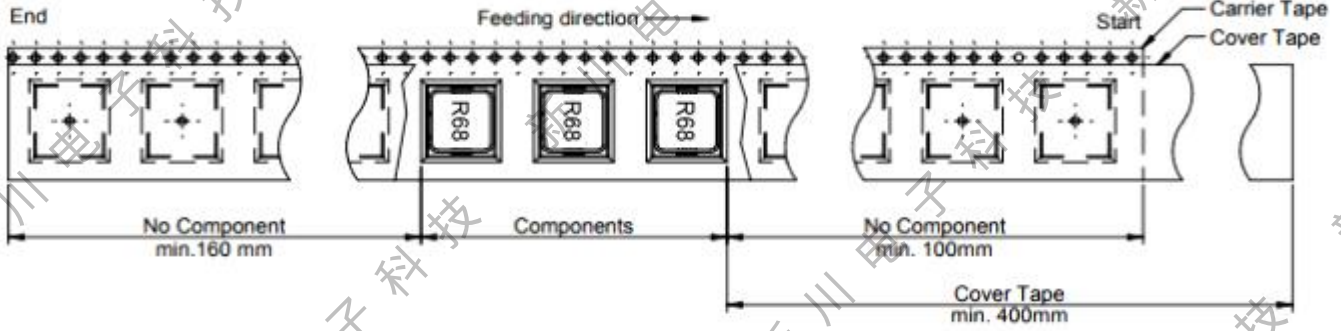
IR Reflow profile



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

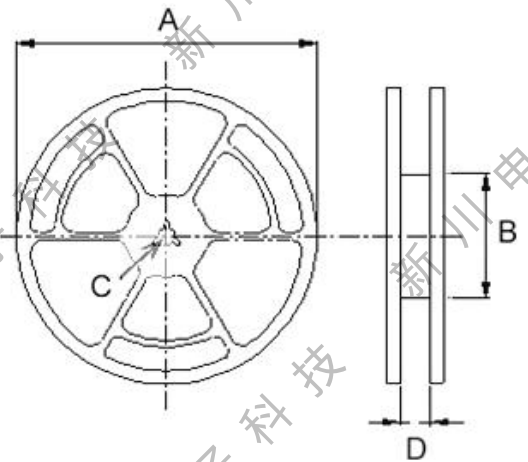
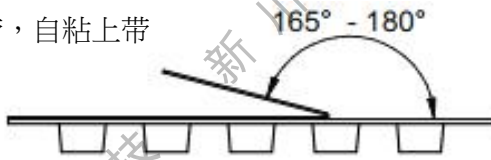
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七.包装规格/PACKING SPECIFICATIONS (单位/UNIT : mm)

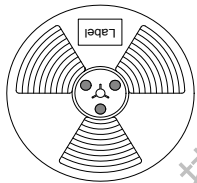


Tape width	Distance	Pull-of force
24 mm	20 mm	10~130g

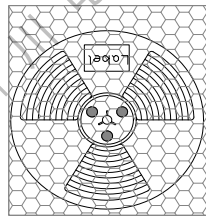
透明下带，自粘上带



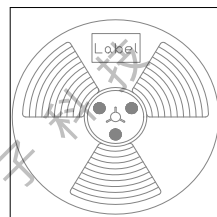
Reel Dimensions (Unit: mm)				Quantity
A	B	C	D	Pcs/Reel
330	100	13	24.5	300



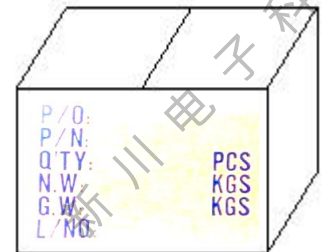
轮盘：13(直径330mm)
数量：300PCS/盘



PE袋
数量：600PCS/袋



内盒
数量：600PCS/盒



外箱，数量：3000PCS/箱
不足整箱用内盒或填充物装满