南充新川电子科技有限公司

ThreeLayer Scientific-Technics Co.,Ltd

ROHS COMPLIANT

产 品 承 认 书

SPECIFICATION FOR APPROVAL

客户名称 *CUSTOMER NAME.*	- - - - -
产品类型 *PRODUCT TYPE*	SMD Power Inductors
客户料号 *CUSTOMER P/N*	- - - - -
川磊料号 *OURS P/N*	CLNR-252012- SERIES
文件编号 *FILE NO.*	SP-21022501

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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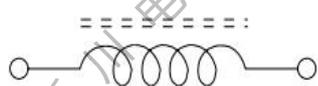# 承认书/*SPECIFICATION FOR APPROVAL*

客户名称 CUSTOMER	- - - - -	客户品名 CUSTOMER P/N	- - - - -	版别 REV.	1.0
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修改记录/*MODIFY RECORDS*

版别 REV.	日期 DATE	修 改 内 容 MODIFY CONTENT	拟制 DRAWING	审核 CHECKED	批准 APPROVED
1.0		新版发行	张莉萍	何利	程志华

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一.尺寸图/DIMENSION（单位/UNIT：mm）

Product size

PAD Layout
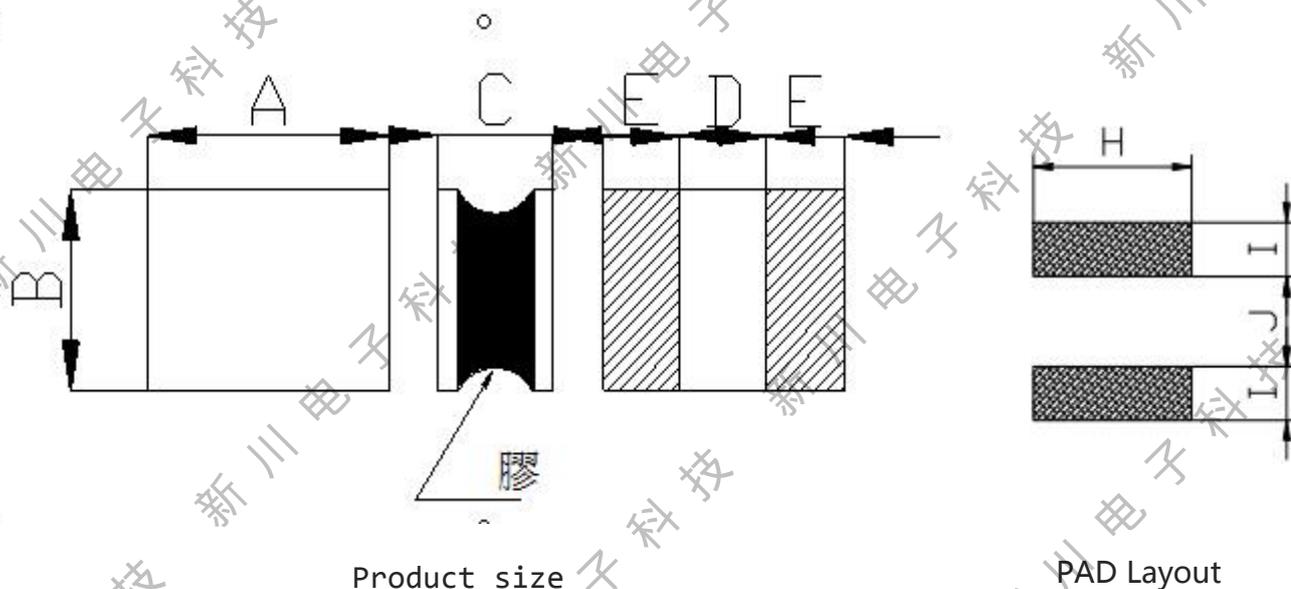
ITEM	A	B	C	D	E	H	I	J	
DIM	2.5	2.0	1.25	0.8	0.9	2.0	1.1	0.6	
TOLE	±0.25	±0.25	Max	±0.3	±0.3	Typ	Typ	Typ	

二.电路图/CIRCUIT DIAGRAM | 三.注意事项/NOTE：

四.电气特性/ELECTRICAL CHARACTERISTIC

Part Number	Inductance (uH)	Tolerance	Test Frequency(Hz)	DCR (Ω) Max	IDC1 (A) Max.	IDC2 (A) Max.	MARK
CLNR-252012-R47□	0.47	N	1M/0.25V	0.061	3.82	2.15	A
CLNR-252012-R68□	0.68	N	1M/0.25V	0.074	3.28	1.95	B
CLNR-252012-1R0□	1.0	N	1M/0.25V	0.09	2.59	1.93	C
CLNR-252012-1R2□	1.2	N	1M/0.25V	0.129	2.38	1.46	D
CLNR-252012-1R5□	1.5	N	1M/0.25V	0.147	2.24	1.4	E
CLNR-252012-2R2□	2.2	N	1M/0.25V	0.216	1.85	1.15	F

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四.电气特性/ELECTRICAL CHARACTERISTIC

Part Number	Inductance (uH)	Tolerance	Test Frequency(Hz)	DCR (Ω) Max	IDC1 (A) Max.	IDC2(A) Max.	MARK
CLNR-252012-3R3☐	3.3	M N	1M/0.25V	0.264	1.61	1.04	G
CLNR-252012-4R7☐	4.7	M N	1M/0.25V	0.377	1.12	0.84	H
CLNR-252012-5R6☐	5.6	M N	1M/0.25V	0.538	1.11	0.73	I
CLNR-252012-6R8☐	6.8	M N	1M/0.25V	0.581	0.98	0.69	J
CLNR-252012-8R2☐	8.2	M N	1M/0.25V	0.658	0.98	0.65	N
CLNR-252012-100☐	10	M N	1M/0.25V	0.69	0.79	0.62	K
CLNR-252012-120☐	12	M N	1M/0.25V	1.075	0.78	0.51	O
CLNR-252012-150☐	15	M N	1M/0.25V	1.591	0.68	0.42	L
CLNR-252012-220☐	22	M N	1M/0.25V	1.976	0.53	0.38	M

(1) Specify the inductance tolerance, K(±10%),M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & ∆L/L0A 30% Typ

(3).IDC2:Temp.rise 40℃ Typ

(4).Operating temp.:-40℃ to +125℃

(5).Storage temp.:-20℃ up to +40℃, 75% RH max.

五.材料清单/MATERIAL LIST

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	WIRE	P180 G1
3	ADHESIVE	NR-3614
4	TIN	107H
5	INK	BLACK

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六.可靠性测试/RELIABILITY TESTING

Operating Temperature	− 40 to +125 ℃（Contain HeatiDCR（mΩ）Max.
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 / ℃（− 40~ + 125 ℃）
Humidity characteristics	Inductance deviation within ± 10% , after 96 hours in 90~95% relative humidity at 40 ± 2 ℃ 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
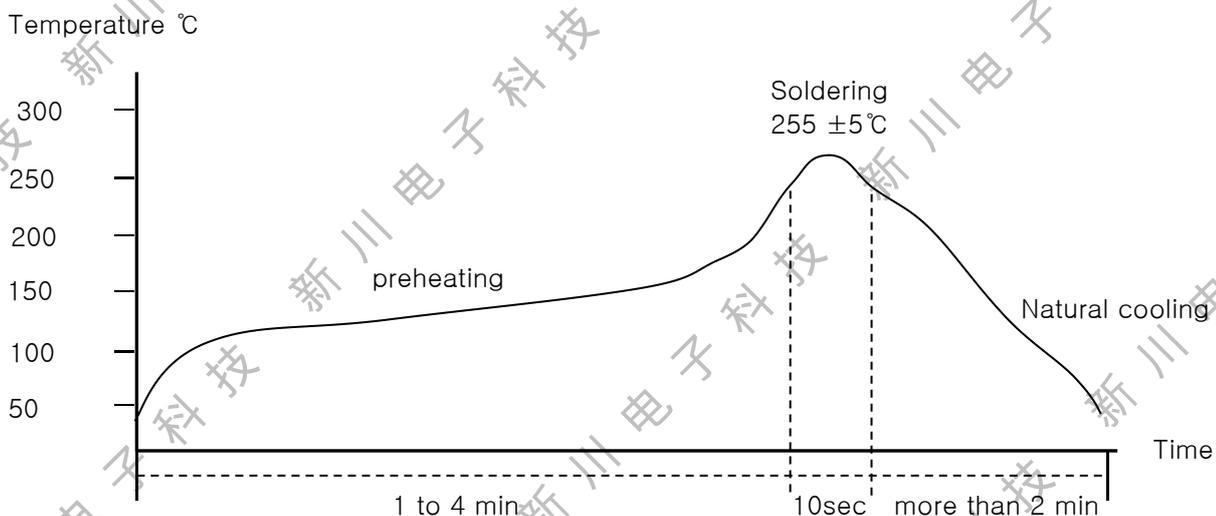
Temperature and humidity . After that , no mechanical and electrical defect should be found .

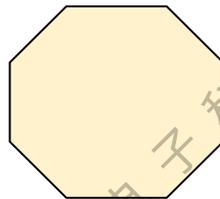| 客户名称 CUSTOMER	- - - - -	客户品名 CUSTOMER P/N	- - - - -	版别 REV.	1.0
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七.编带规格/TAPING SPECFICATIONS

后導带　200 m/m　　COMPONENTS　　前導带　400 m/m

165° - 180°
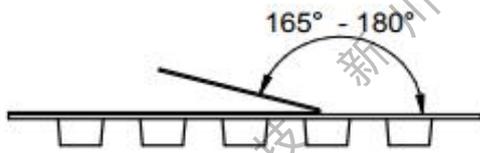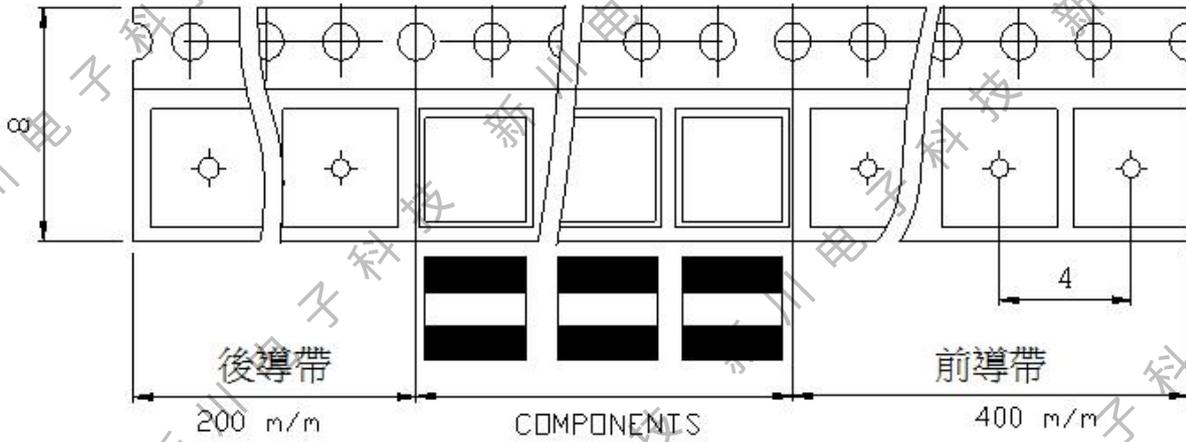
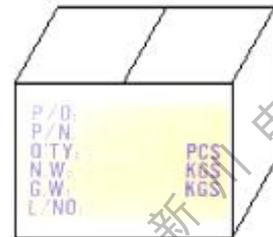| Tape width	Distance	Pull-of force
8 mm	4 mm	10~120g

八.包装方式/PACKING LIST

轮盘：7'(直径178mm)
数量：2000PCS/盘

内盒/PE袋
数量：10000PCS/盒

外箱，数量：100000PCS/箱
不足整箱用内盒或填充物

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