



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

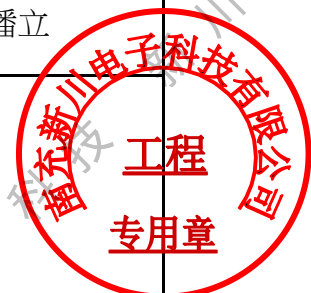
川磊料号 CDRI-73- SERIES
OURS P/N

文件编号 SP-21072001
FILE NO.

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

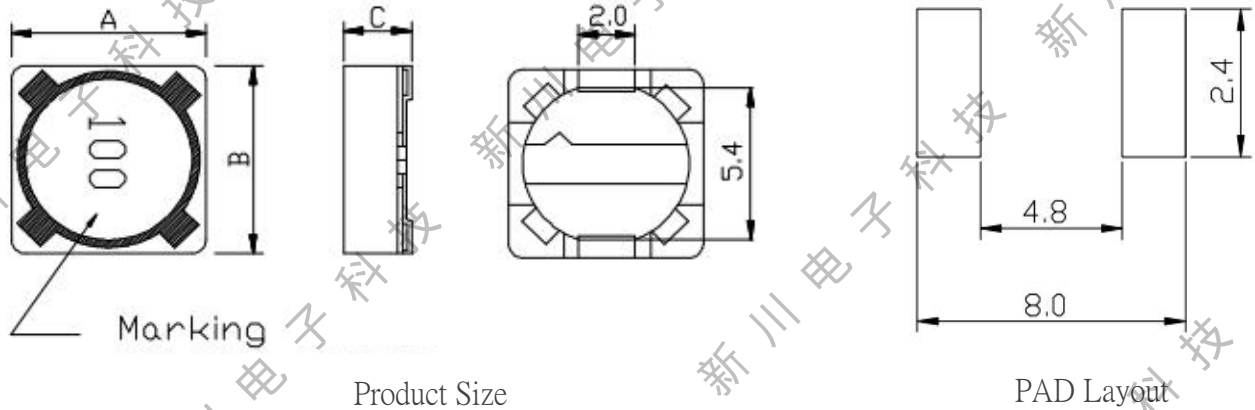
批准 APPROVED	确认 CHECKED	作成 DESIGN
程志华	陈尧	潘立

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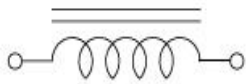
客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	-----	版别 REV.	1.0
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一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C					
DIM	7.3	7.3	3.6					
TOLE	±0.5	±0.5	Max					

二.电路图/CIRCUIT DIAGRAM



三.注意事项/NOTE :

1.印字：黑色

四.电气特性/ELECTRICAL CHARACTERISTIC

Part Nuber	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR (Ω) Max.	IDC (A)	MARK
CDRI-73-1R0□	1.0	N	100K/0.25V	18.5m	5.0	1R0
CDRI-73-2R2□	2.2	M N	100K/0.25V	22m	3.5	2R2
CDRI-73-3R3□	3.3	M N	100K/0.25V	40m	3.0	3R3
CDRI-73-4R7□	4.7	M N	100K/0.25V	65m	2.27	4R7
CDRI-73-6R8□	6.8	M N	100K/0.25V	67m	2.0	6R8
CDRI-73-8R2□	7.5	M N	100K/0.25V	70m	1.8	8R2
CDRI-73-100□	10	M	100K/0.25V	72m	1.68	100
CDRI-73-120□	12	M	100K/0.25V	98m	1.52	120
CDRI-73-150□	15	M	100K/0.25V	0.13	1.33	150
CDRI-73-180□	18	M	100K/0.25V	0.14	1.2	180
CDRI-73-220□	22	M	100K/0.25V	0.19	1.07	220

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四.电气特性/ELECTRICAL CHARACTERISTIC

Part Nuber	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR (Ω) Max.	IDC (A)	MARK
CDRI-73-270□	27	M	100K/0.25V	0.21	0.96	270
CDRI-73-330□	33	M	100K/0.25V	0.24	0.91	330
CDRI-73-390□	39	M	100K/0.25V	0.32	0.77	390
CDRI-73-470□	47	M	100K/0.25V	0.36	0.76	470
CDRI-73-560□	56	M	100K/0.25V	0.47	0.68	560
CDRI-73-680□	68	M	100K/0.25V	0.52	0.61	680
CDRI-73-820□	82	M	100K/0.25V	0.69	0.57	820
CDRI-73-101□	100	M	100K/0.25V	0.79	0.5	101
CDRI-73-121□	120	M	100K/0.25V	0.89	0.49	121
CDRI-73-151□	150	M	100K/0.25V	1.27	0.43	151
CDRI-73-181□	180	M	100K/0.25V	1.45	0.39	181
CDRI-73-221□	220	M	100K/0.25V	1.65	0.35	221
CDRI-73-271□	270	M	100K/0.25V	2.31	0.32	271
CDRI-73-331□	330	M	100K/0.25V	2.62	0.28	331
CDRI-73-391□	390	M	100K/0.25V	2.94	0.26	391
CDRI-73-471□	470	M	100K/0.25V	4.18	0.24	471
CDRI-73-561□	560	M	100K/0.25V	4.67	0.22	561
CDRI-73-681□	680	M	100K/0.25V	5.73	0.19	681
CDRI-73-821□	820	M	100K/0.25V	6.54	0.18	821
CDRI-73-102□	1000	M	100K/0.25V	9.44	0.16	102
CDRI-73-152□	1500	M	100K/0.25V	11.2	0.14	152

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

(2).IDC1:Base on temp.rise & $\Delta L/L0A \leq 25\% \text{ MAX}$, Temp.rise 40°C Typ

(3).Operating temp.: -40°C to +125°C

(4).Storage Temp: -20°C up to +40°C, 75% RH max.

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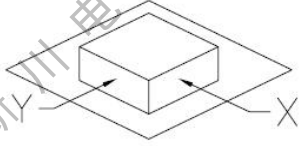
五.材料清单/MATERIAL LIST

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	BASE	B-73
3	WIRE	P180 G1
4	ADHESIVE	G-500HF/FW-5013
5	TAPE	3M
6	TIN	107H
7	INK	BLACK

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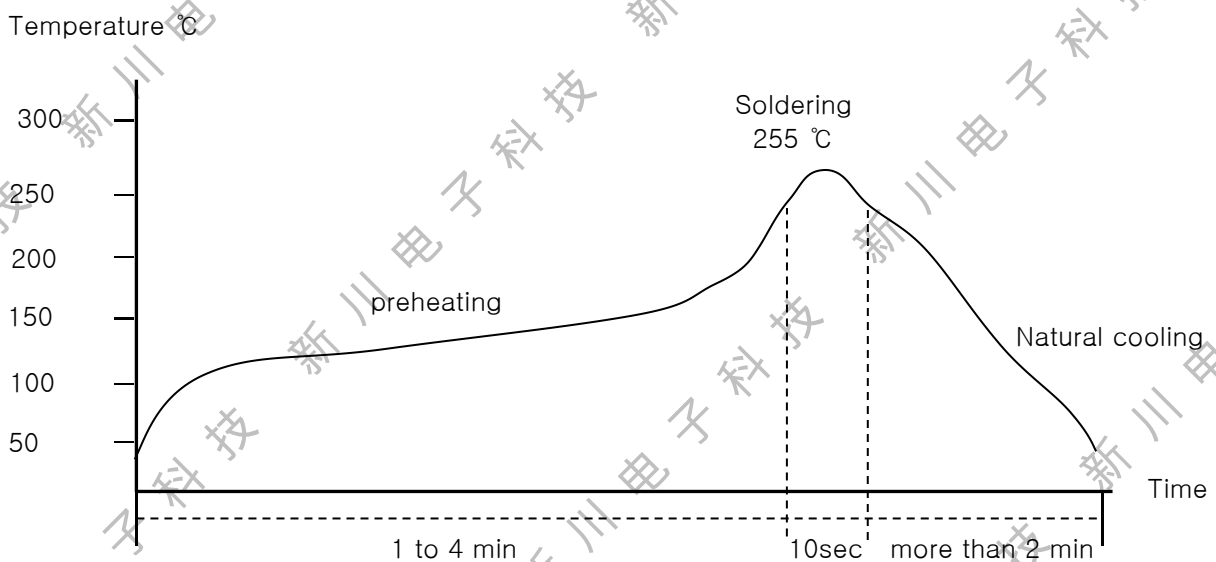
六.可靠性测试/RELIABILITY TESTING

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

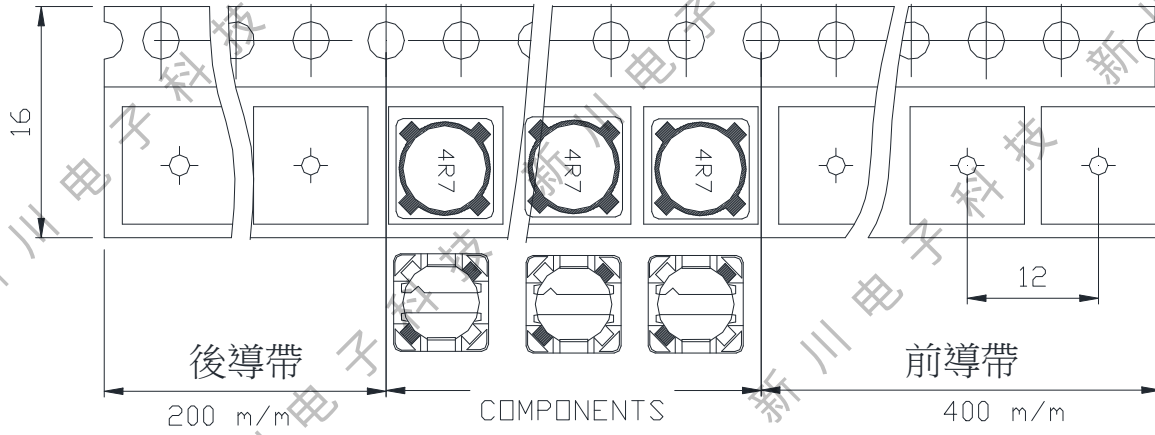
IR Reflow profile



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

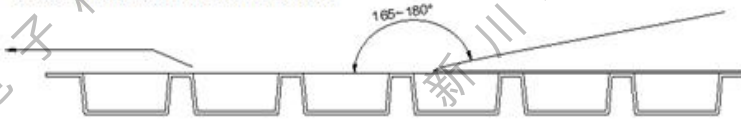
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七.编带规格/TAPING SPECIFICATIONS

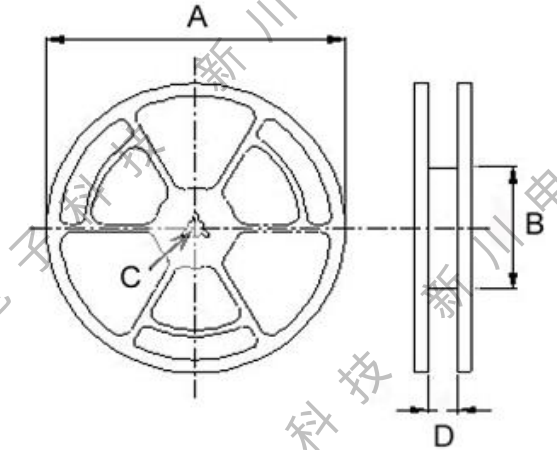


Transparent carrier and cover tape/透明载带和自粘上带

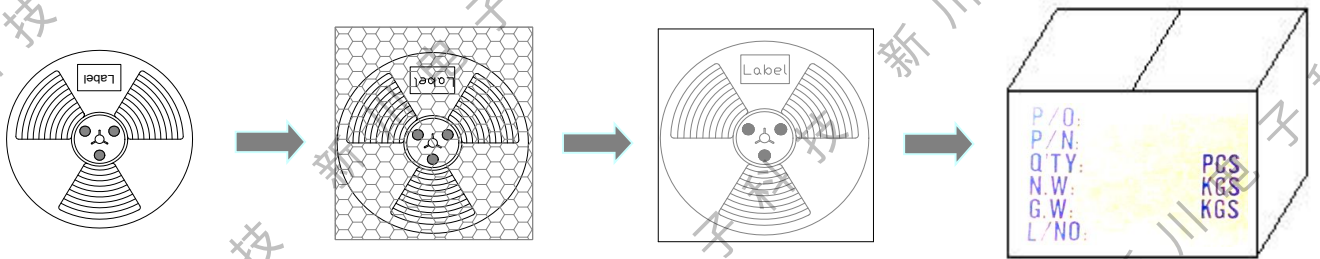
Adhesive strength of cover tape is 20 to 120 gf
The conduction band direction



Reel Dimensions (Unit: mm)				Quantity
A	B	C	D	Pcs/Reel
330	100	13	16.5	1000



八.包装方式/PACKING LIST



轮盘：13'(直径330mm)
数量：1000PCS/盘

PE袋
数量：1000PCS/袋

内盒
数量：3000PCS/盒

外箱，数量：15000PCS/箱
不足整箱用内盒或填充物
装满