



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-74- SERIES
OURS P/N

文件编号 SP-21072002
FILE NO.

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

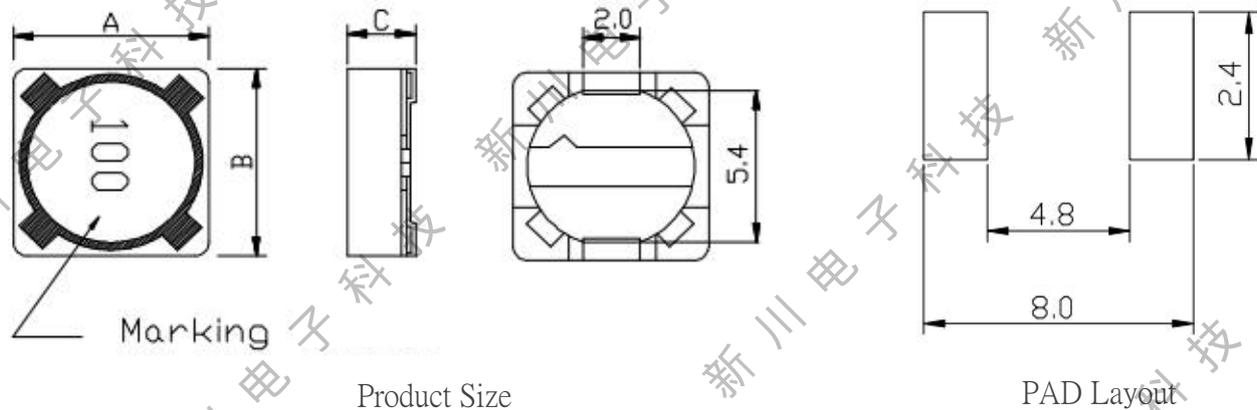
批准 <i>APPROVED</i>	确认 <i>CHECKED</i>	作成 <i>DESIGN</i>
程志华	陈尧	潘立

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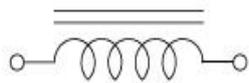
客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	-----	版别 REV.	1.0
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一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C					
DIM	7.3	7.3	4.6					
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-74-R33□	0.33	N	100K/0.25V	8.7m	8.5	R33
CDRI-74-1R0□	1.0	N	100K/0.25V	11.1m	6.8	1R0
CDRI-74-1R2□	1.2	M.N	100K/0.25V	11.1m	6.8	1R2
CDRI-74-1R5□	1.5	N	100K/0.25V	13.4m	5.7	1R5
CDRI-74-1R8□	1.8	M.N	100K/0.25V	14.7m	5.0	1R8
CDRI-74-2R2□	2.2	M	100K/0.25V	14.7m	5.0	2R2
CDRI-74-3R3□	3.3	M.N	100K/0.25V	21.4m	4.0	3R3
CDRI-74-4R7□	4.7	M.N	100K/0.25V	31.0m	3.4	4R7
CDRI-74-5R6□	5.6	M.N	100K/0.25V	33.5m	3.0	5R6
CDRI-74-6R8□	6.8	M.N	100K/0.25V	35m	2.3	6R8
CDRI-74-8R2□	8.2	M.N	100K/0.25V	42m	2.1	8R2

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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-74-100□	10	M	100K/0.25V	49m	1.84	100
CDRI-74-120□	12	M	100K/0.25V	58m	1.71	120
CDRI-74-150□	15	M	100K/0.25V	81m	1.47	150
CDRI-74-180□	18	M	100K/0.25V	91m	1.31	180
CDRI-74-220□	22	M	100K/0.25V	0.11	1.23	220
CDRI-74-270□	27	M	100K/0.25V	0.15	1.12	270
CDRI-74-330□	33	M	100K/0.25V	0.2	0.96	330
CDRI-74-390□	39	M	100K/0.25V	0.23	0.91	390
CDRI-74-470□	47	M	100K/0.25V	0.26	0.88	470
CDRI-74-560□	56	M	100K/0.25V	0.35	0.75	560
CDRI-74-680□	68	M	100K/0.25V	0.38	0.69	680
CDRI-74-820□	82	M	100K/0.25V	0.43	0.61	820
CDRI-74-101□	100	M	100K/0.25V	0.61	0.6	101
CDRI-74-121□	120	M	100K/0.25V	0.66	0.52	121
CDRI-74-151□	150	M	100K/0.25V	0.88	0.46	151
CDRI-74-181□	180	M	100K/0.25V	0.98	0.42	181
CDRI-74-221□	220	M	100K/0.25V	1.17	0.36	221
CDRI-74-271□	270	M	100K/0.25V	1.64	0.34	271
CDRI-74-331□	330	M	100K/0.25V	1.86	0.32	331
CDRI-74-391□	390	M	100K/0.25V	2.85	0.29	391
CDRI-74-471□	470	M	100K/0.25V	3.01	0.26	471
CDRI-74-561□	560	M	100K/0.25V	3.62	0.23	561
CDRI-74-681□	680	M	100K/0.25V	4.63	0.22	681
CDRI-74-821□	820	M	100K/0.25V	5.2	0.2	821
CDRI-74-102□	1000	M	100K/0.25V	6	0.18	102

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

(2).IDC: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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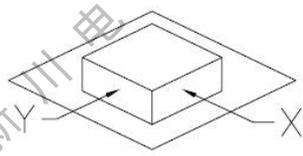
五.材料清单/MATERIAL LIST

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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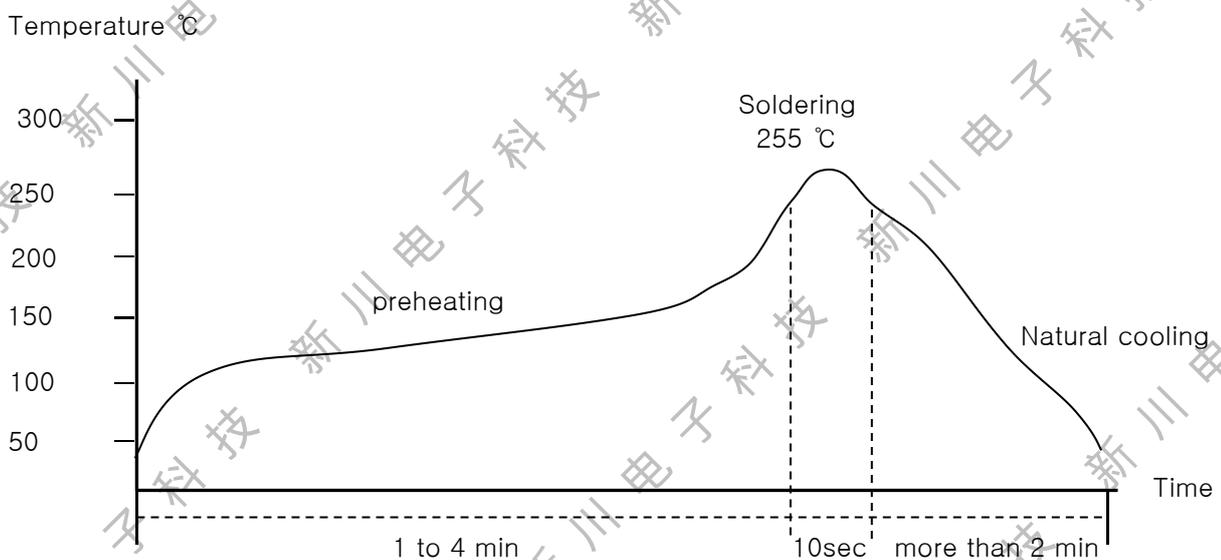
六.可靠性测试/RELIABILITY TESTING

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

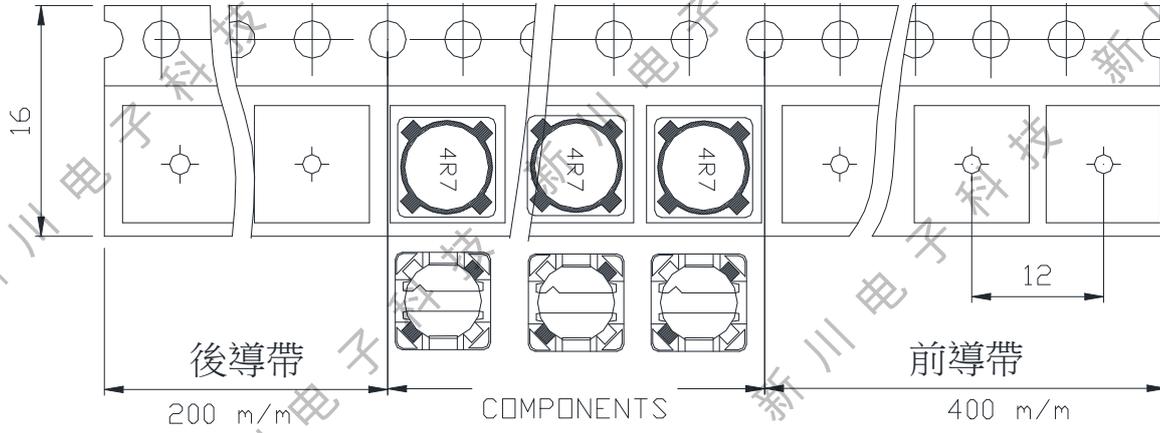
IR Reflow profile



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

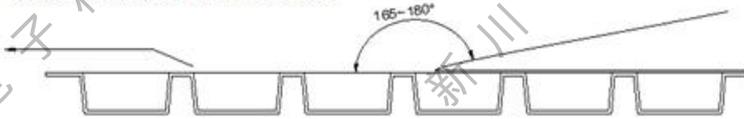
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七.编带规格/TAPING SPECIFICATIONS

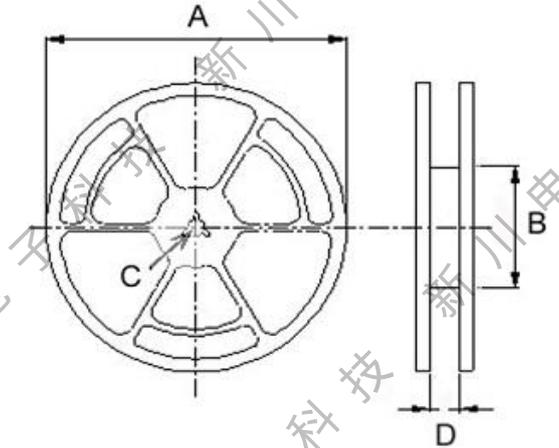


Transparent carrier and cover tape/透明载带和自粘上带

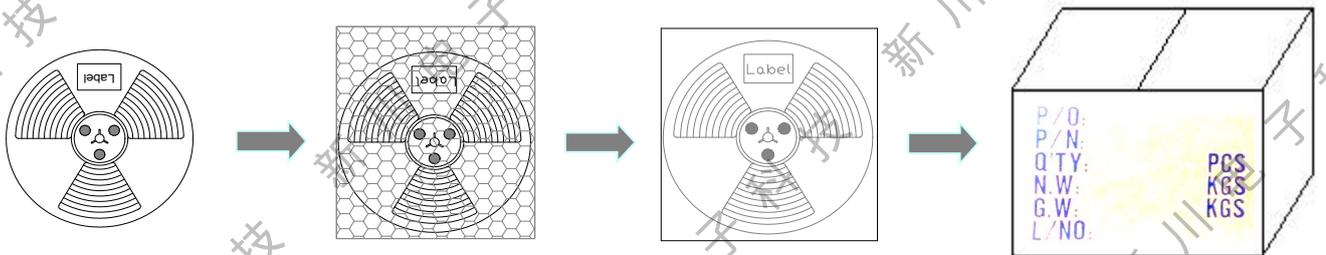
Adhesive strength of cover tape is 20 to 120 gf
The conduction band direction



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