



南充新川电子科技有限公司

ThreeLayer Scientific-Technics Co.,Ltd



产品承认书

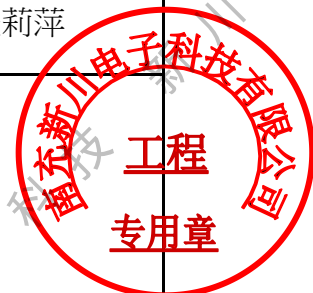
SPECIFICATION FOR APPROVAL

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 PN</i>	-----
新川料号 <i>OURS PN</i>	CDRI-5D28-SERIES
文件编号 <i>FILE NO.</i>	SP-21072106

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>		

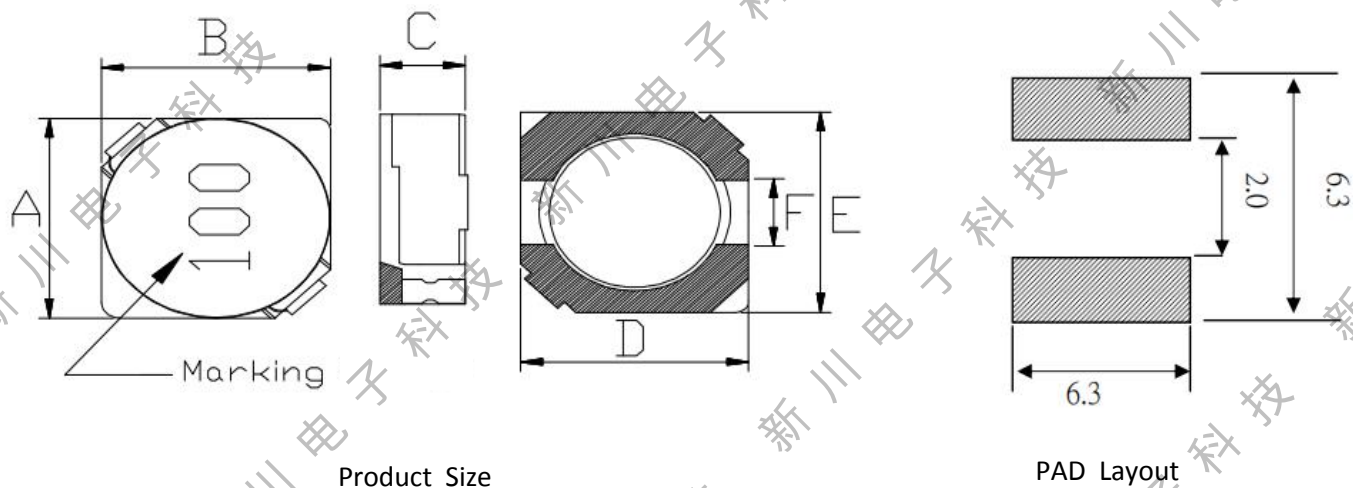
批准 <i>APPROVED</i>	确认 <i>CHECKED</i>	作成 <i>DESIGN</i>
程志华	陈丽丽	张莉萍

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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	D	E	F			
DIM	5.7	5.7	3.0	5.5	5.5	2.0			
TOLE	±0.3	±0.3	Max	Typ	Typ	Typ			

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-5D28-1R0□	1.0	N	100KHz/0.1V	12m	3.7	1R0
CDRI-5D28-1R2□	1.2	N	100KHz/0.1V	13m	3.5	1R2
CDRI-5D28-2R2□	2.2	N	100KHz/0.1V	18m	2.8	2R2
CDRI-5D28-2R5□	2.5	N	100KHz/0.1V	18m	2.6	2R5
CDRI-5D28-2R7□	2.7	N	100KHz/0.1V	18m	2.6	2R7
CDRI-5D28-3R0□	3.0	N	100KHz/0.1V	24m	2.4	3R0
CDRI-5D28-3R3□	3.3	M N	100KHz/0.1V	24m	2.4	3R3
CDRI-5D28-3R9□	3.9	N	100KHz/0.1V	31m	2.2	3R9
CDRI-5D28-4R2□	4.2	N	100KHz/0.1V	31m	2.2	4R2
CDRI-5D28-4R7□	4.7	M N	100KHz/0.1V	35m	2.0	4R7

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Part Nuber	Inductance (uH)	Tolerance	Test Frequency (Hz)	DCR (Ω) Max.	IDC (A)	MARK
CDRI-5D28-5R3□	5.3	N	100KHz/0.1V	38m	1.90	5R3
CDRI-5D28-6R2□	6.2	M N	100KHz/0.1V	45m	1.80	6R2
CDRI-5D28-6R6□	6.6	M N	100KHz/0.1V	45m	1.80	6R6
CDRI-5D28-8R2□	8.2	M N	100KHz/0.1V	53m	1.60	8R2
CDRI-5D28-100□	10	M N	100KHz/0.1V	65m	1.30	100
CDRI-5D28-120□	12	M N	100KHz/0.1V	76m	1.20	120
CDRI-5D28-150□	15	M N	100KHz/0.1V	0.103	1.10	150
CDRI-5D28-180□	18	M N	100KHz/0.1V	0.110	1.00	180
CDRI-5D28-220□	22	M N	100KHz/0.1V	0.122	0.90	220
CDRI-5D28-270□	27	M N	100KHz/0.1V	0.175	0.85	270
CDRI-5D28-330□	33	M N	100KHz/0.1V	0.189	0.75	330
CDRI-5D28-390□	39	M N	100KHz/0.1V	0.212	0.70	390
CDRI-5D28-470□	47	M N	100KHz/0.1V	0.250	0.62	470
CDRI-5D28-560□	56	M N	100KHz/0.1V	0.305	0.58	560
CDRI-5D28-680□	68	M N	100KHz/0.1V	0.355	0.52	680
CDRI-5D28-820□	82	M N	100KHz/0.1V	0.463	0.46	820
CDRI-5D28-101□	100	M N	100KHz/0.1V	0.520	0.42	101
CDRI-5D28-151□	150	M N	100KHz/0.1V	1.050	0.35	151
CDRI-5D28-181□	180	M N	100KHz/0.1V	1.550	0.32	181

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

(2).IDC:The DC current at which causes initial inductance to decreases by ≤35% MAX, or temperature to rise by 40°C, whichever is lower(At ambient reference temperature:25°C).

(3).Operating temp.: -40°C to +125°C

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

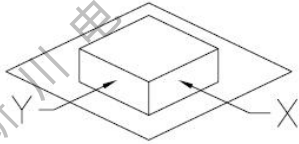
五.材料清单/MATERIAL LIST

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	BASE	C-5D18 P3
3	WIRE	P180 Grd1
4	EPOXY	E-G500HF
5	SOLDER	Sn99.3:Cu0.7
6	INK	BLACK

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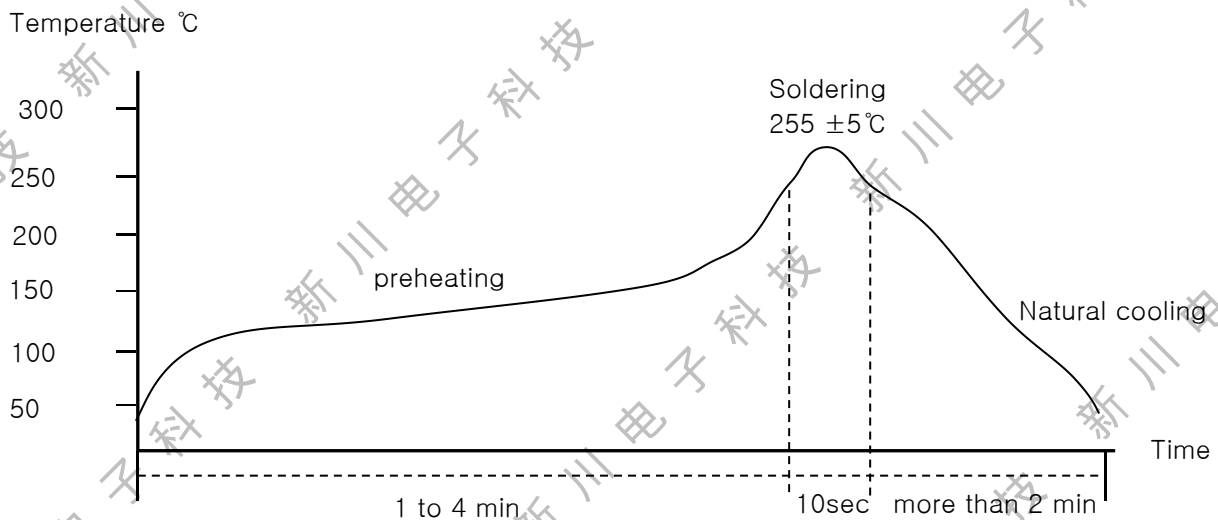
六.可靠性测试/RELIABILITY TESTING

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

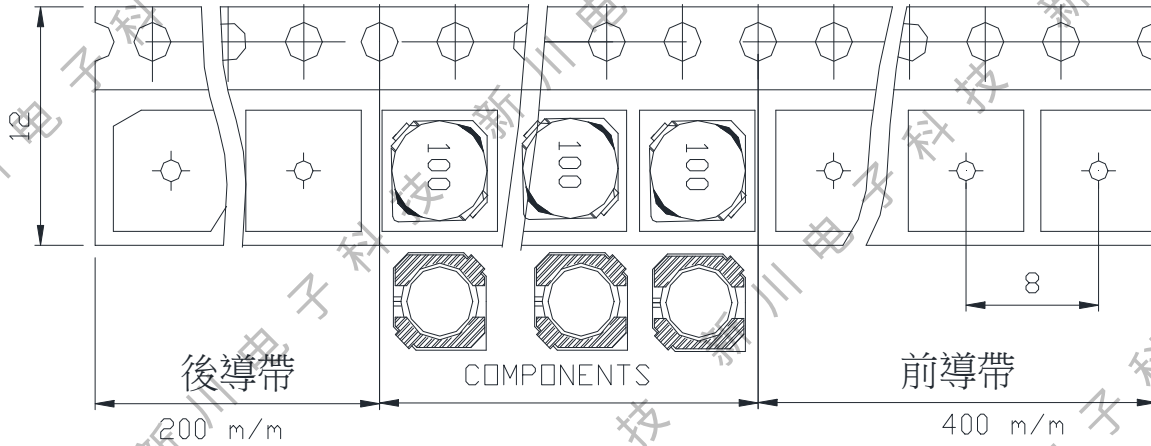
IR Reflow profile



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

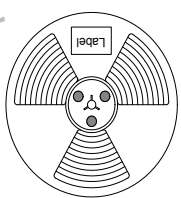
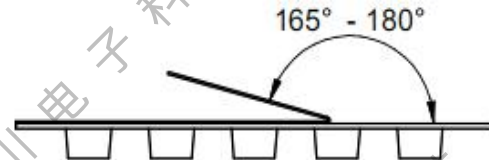
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七.包装方式/PACKING LIST

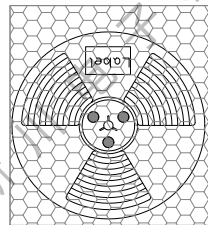


Transparent carrier and cover tape/透明载带和自粘上带

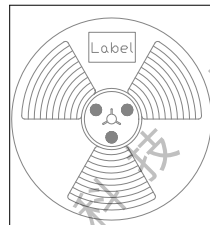
Tape width	Distance	Pull-of force
12 mm	8 mm	20~100g



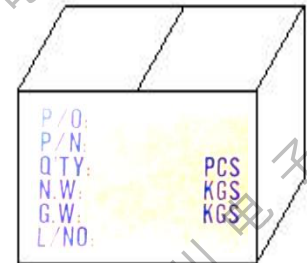
轮盘：13'(直径330mm)
数量：2000PCS/盘



PE袋
数量：2000PCS/袋



内盒
数量：8000PCS/
盒



外箱，数量：40000PCS/箱
不足整箱用内盒或填充物
装满