



南充新川电子科技有限公司

ThreeLayer Scientific-Technics Co.,Ltd



产品承认书

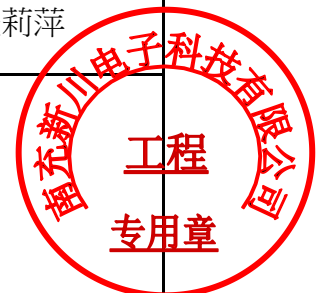
SPECIFICATION FOR APPROVAL

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-3D16-SERIES
文件编号 <i>FILE NO.</i>	SP-21072111

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>		

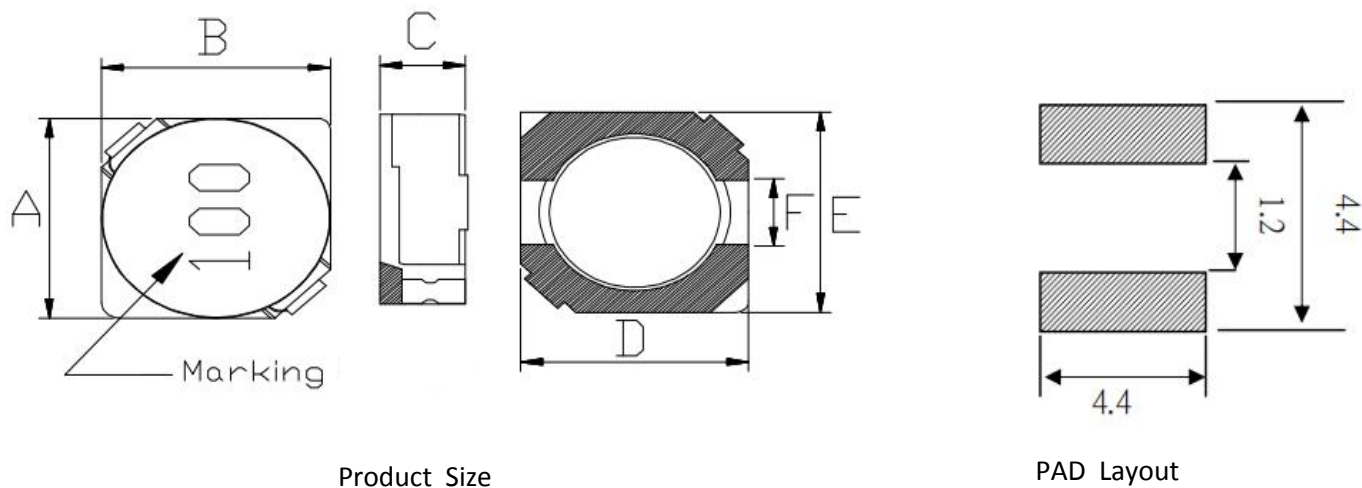
批准 <i>APPROVED</i>	确认 <i>CHECKED</i>	作成 <i>DESIGN</i>
程志华	陈丽丽	张莉萍

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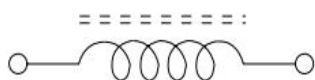
客户名称 CUSTOMER	-----	客户品名 CUSTOMER P/N	-----	版别 REV.	1.0
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一.尺寸图/DIMENSION (单位/UNIT : mm)



ITEM	A	B	C	D	E	F			
DIM	3.8	3.8	1.6	3.7	3.7	1.2			
TOLE	±0.2	±0.2	±0.3	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-3D16-2R2□	2.2	M N	100KHz/0.1V	72m	1.2	2R2
CDRI-3D16-3R3□	3.3	M N	100KHz/0.1V	85m	1.1	3R3
CDRI-3D16-4R7□	4.7	M N	100KHz/0.1V	0.105	0.9	4R7
CDRI-3D16-6R2□	6.2	N	100KHz/0.1V	0.16	1.17	6R2
CDRI-3D16-6R8□	6.8	M N	100KHz/0.1V	0.17	0.73	6R8
CDRI-3D16-8R2□	8.2	N	100KHz/0.1V	0.2	0.65	8R2
CDRI-3D16-100□	10	M N	100KHz/0.1V	0.21	0.55	100
CDRI-3D16-150□	15	M N	100KHz/0.1V	0.295	0.45	150
CDRI-3D16-220□	22	M N	100KHz/0.1V	0.43	0.4	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-3D16-330□	33	M N	100KHz/0.1V	0.675	0.32	330
CDRI-3D16-390□	39	M N	100KHz/0.1V	0.82	0.26	390
CDRI-3D16-470□	47	M N	100KHz/0.1V	0.99	0.24	470
CDRI-3D16-680□	68	M N	100KHz/0.1V	1.1	0.22	680
CDRI-3D16-101□	100	K M	100KHz/0.1V	1.4	0.17	101
CDRI-3D16-221□	220	K M	100KHz/0.1V	4.0	0.15	221

(1) Specify the inductance tolerance, K($\pm 10\%$),M($\pm 20\%$),N($\pm 30\%$)

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

(3).Operating temp.: -40°C to $+125^\circ\text{C}$

(4).Storage Temp: -20°C up to $+40^\circ\text{C}$, 75% RH max.

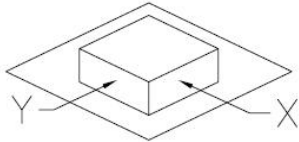
五.材料清单/MATERIAL LIST

NO.	ITEM	DESCRIPTION
1	CORE	FERRITE
2	BASE	C-3D16
3	WIRE	P180 Grd1
4	EPOXY	E-G500HF
5	SOLDER	Sn99.3:Cu0.7
6	INK	BLACK

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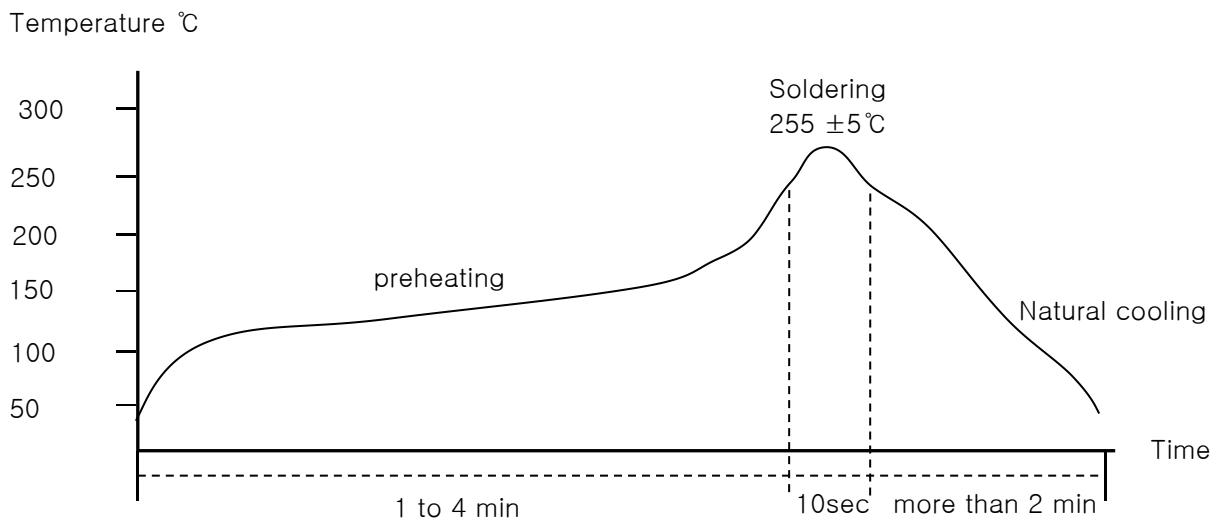
六.可靠性测试/RELIABILITY TESTING

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

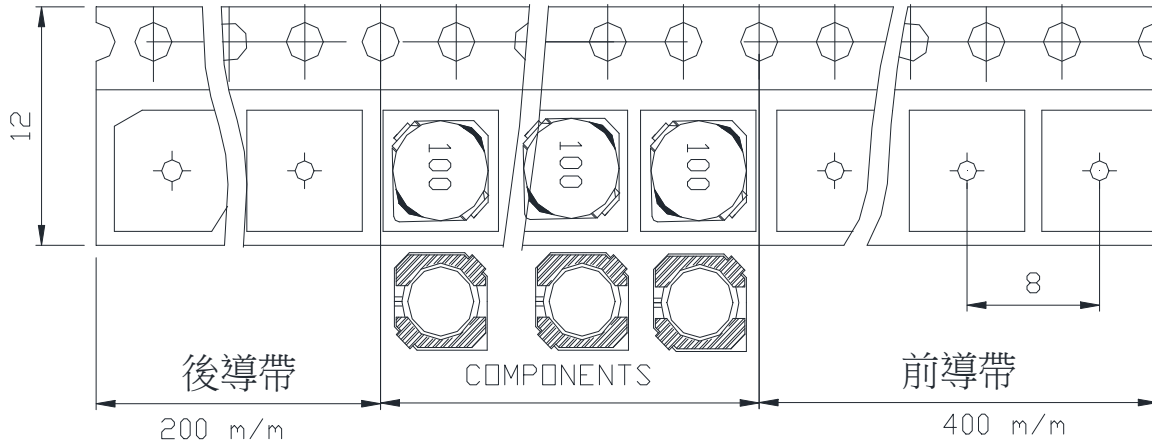
IR Reflow profile



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

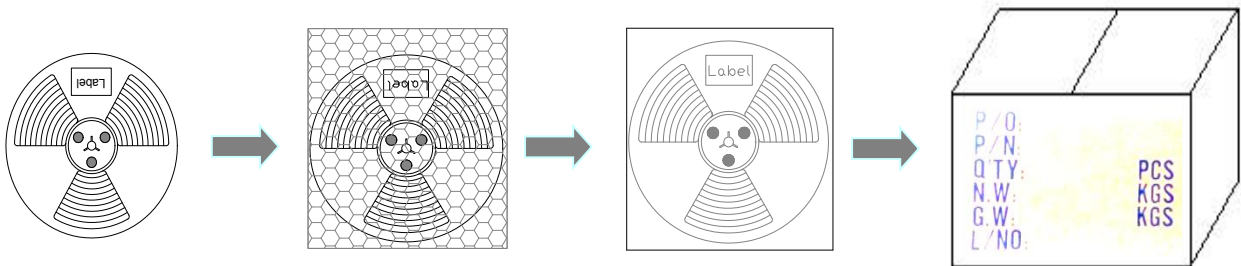
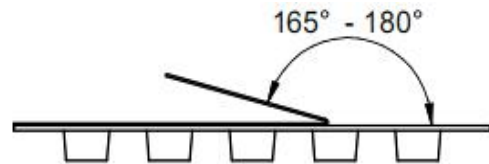
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七.包装方式/PACKING LIST



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：3500PCS/盘

PE袋
数量：3500PCS/袋

内盒
数量：14000PCS/
盒

外箱，数量：70000PCS/箱
不足整箱用内盒或填充物
装满