



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

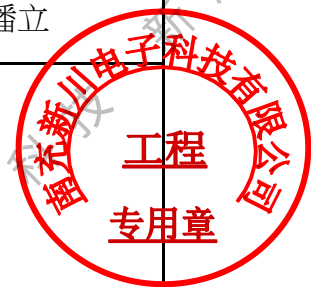
SPECIFICATION FOR APPROVAL

| | |
|-------------------------------|--------------------------|
| 客户名称 <i>CUSTOMER NAME.</i> | ---- |
| 产品类型 <i>PRODUCT TYPE</i> | Shielded Power Inductors |
| 客户料号 <i>CUSTOMER PN</i> | ---- |
| 川磊料号 <i>OURS PN</i> | CDRI-105R- SERIES |
| 文件编号 <i>FILE NO.</i> | SP-21072119 |

| | | |
|--------------------------------|----------------------|---------------------|
| 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> | | |
| | | |

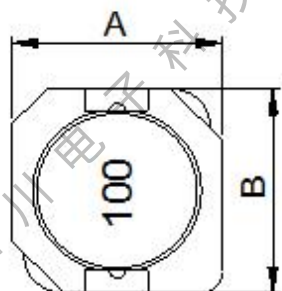
| | | |
|-----------------------|----------------------|---------------------|
| 批准 <i>APPROVED</i> | 确认 <i>CHECKED</i> | 作成 <i>DESIGN</i> |
| 程志华 | 陈尧 | 潘立 |

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
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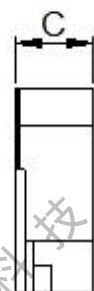


| | | | | | |
|----------------------|-----------------------------|----------------------|-------------------|------------------|-------------|
| 客户名称 CUSTOMER | --- | 客户品名 CUSTOMER P/N | --- | 版别 REV. | 1.0 |
| 产品类型 PRODUCT TYPE | Shielded Power Inductors | 川磊品名 OURS P/N | CDRI-105R- SERIES | 文件编号 FILE NO. | SP-21072119 |

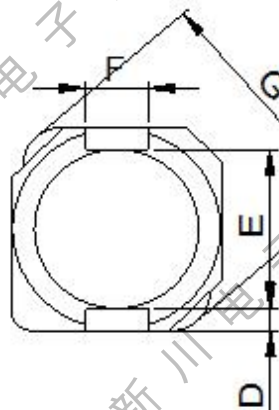
一.尺寸图/DIMENSION (单位/UNIT : mm)



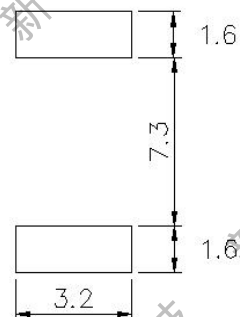
TOP VIEW



SIDE VIEW



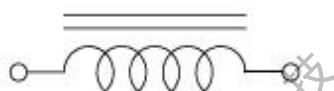
BOTTOM VIEW



Land Pattern

| | | | | | | | | | |
|------|------|------|------|-----|-----|-----|------|--|--|
| ITEM | A | B | C | D | E | F | G | | |
| DIM | 10 | 10.3 | 4.8 | 1.2 | 7.7 | 3.0 | 13.5 | | |
| TOLE | ±0.3 | ±0.3 | ±0.3 | TYP | 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 Number | Inductance (uH) | Tolerance | Test Frequency (Hz) | DCR (mΩ) Max | IDC1 (A) Max. | IDC2 (A) Max. | MARK |
|----------------|-----------------|-----------|---------------------|--------------|---------------|---------------|------|
| CDRI-105R-1R5□ | 1.5 | N | 100K/1V | 5.8 | 10.5 | 8.3 | 1R5 |
| CDRI-105R-2R2□ | 2.2 | N | 100K/1V | 7.2 | 9.25 | 7.5 | 2R2 |
| CDRI-105R-3R3□ | 3.3 | N | 100K/1V | 10.4 | 7.8 | 6.5 | 3R3 |
| CDRI-105R-4R7□ | 4.7 | M N | 100K/1V | 12.3 | 6.4 | 6.1 | 4R7 |
| CDRI-105R-6R8□ | 6.8 | N | 100K/1V | 18 | 5.4 | 5.4 | 6R8 |
| CDRI-105R-8R2□ | 8.2 | M N | 100K/1V | 20 | 4.85 | 5.0 | 8R2 |
| CDRI-105R-100□ | 10 | M N | 100K/1V | 26 | 4.45 | 4.5 | 100 |
| CDRI-105R-120□ | 12 | M N | 100K/1V | 33 | 4 | 3.8 | 120 |
| CDRI-105R-150□ | 15 | M N | 100K/1V | 41 | 3.6 | 3.4 | 150 |
| CDRI-105R-180□ | 18 | M N | 100K/1V | 46 | 3.2 | 3.1 | 180 |
| CDRI-105R-220□ | 22 | M N | 100K/1V | 61 | 2.95 | 2.9 | 220 |

| | | | | | |
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四.电气特性/ELECTRICAL CHARACTERISTIC

| Part Number | Inductance (uH) | Tolerance | Test Frequency (Hz) | DCR (mΩ) Max | IDC1 (A) Max. | IDC2 (A) Max. | MARK |
|----------------|--------------------|-----------|---------------------------|--------------------|------------------|------------------|------|
| CDRI-105R-270□ | 27 | M N | 100K/1V | 69 | 2.7 | 2.60 | 270 |
| CDRI-105R-330□ | 33 | M N | 100K/1V | 84 | 2.4 | 2.50 | 330 |
| CDRI-105R-390□ | 39 | M N | 100K/1V | 106 | 2.3 | 2.25 | 390 |
| CDRI-105R-470□ | 47 | M N | 100K/1V | 130 | 2 | 2.00 | 470 |
| CDRI-105R-560□ | 56 | M N | 100K/1V | 149 | 1.9 | 1.90 | 560 |
| CDRI-105R-680□ | 68 | M N | 100K/1V | 201 | 1.65 | 1.60 | 680 |
| CDRI-105R-820□ | 82 | M N | 100K/1V | 227 | 1.5 | 1.45 | 820 |
| CDRI-105R-101□ | 100 | K M | 100K/1V | 253 | 1.35 | 1.35 | 101 |
| CDRI-105R-121□ | 120 | K M | 100K/1V | 303 | 1.28 | 1.18 | 121 |
| CDRI-105R-151□ | 150 | K M | 100K/1V | 370 | 1.12 | 1.10 | 151 |
| CDRI-105R-181□ | 180 | K M | 100K/1V | 419 | 1.04 | 1.00 | 181 |
| CDRI-105R-221□ | 220 | K M | 100K/1V | 500 | 0.94 | 0.94 | 221 |
| CDRI-105R-271□ | 270 | K M | 100K/1V | 672 | 0.84 | 0.80 | 271 |
| CDRI-105R-331□ | 330 | K M | 100K/1V | 812 | 0.75 | 0.73 | 331 |
| CDRI-105R-391□ | 390 | K M | 100K/1V | 953 | 0.7 | 0.70 | 391 |
| CDRI-105R-471□ | 470 | K M | 100K/1V | 1289 | 0.6 | 0.54 | 471 |
| CDRI-105R-561□ | 560 | K M | 100K/1V | 1430 | 0.54 | 0.52 | 561 |
| CDRI-105R-681□ | 680 | K M | 100K/1V | 1599 | 0.52 | 0.51 | 681 |
| CDRI-105R-821□ | 820 | K M | 100K/1V | 1768 | 0.5 | 0.48 | 821 |
| CDRI-105R-102□ | 1000 | K M | 100K/1V | 1989 | 0.48 | 0.42 | 102 |

(1).Specify the inductance tolerance, K(±10%), L(±15%), M(±20%),N(±30%)

(2).IDC1:Base on temp.rise & $\Delta L/L0A \leq 35\%$ MAX

(3).IDC2:Temp.rise 45°C Typ

(4).Operating temp.: -40°C to +125°C

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

| | | | | | |
|----------------------|-----------------------------|----------------------|-------------------|------------------|-------------|
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五.材料清单/MATERIAL LIST

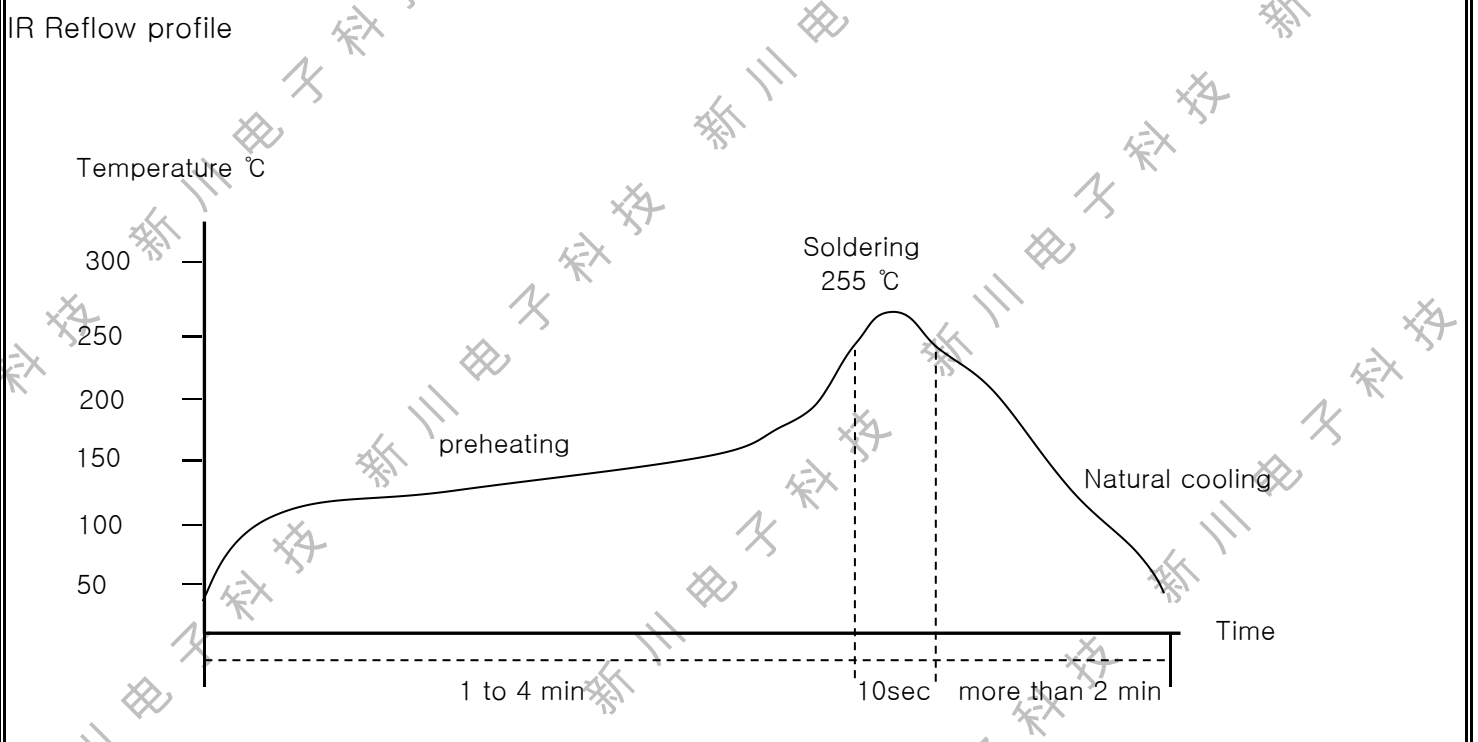
| NO. | ITEM | DESCRIPTION |
|-----|----------|--------------|
| 1 | CORE | FERRITE |
| 2 | WIRE | P180 Grd1 |
| 3 | CLIP | C1100 P2 |
| 4 | SOLDER | Sn99.3:Cu0.7 |
| 5 | ADHESIVE | G-500HF |
| | | FW-6013 |
| 6 | INK | BLACK |

| | | | | | |
|----------------------|--------------------------|----------------------|-------------------|------------------|-------------|
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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 |

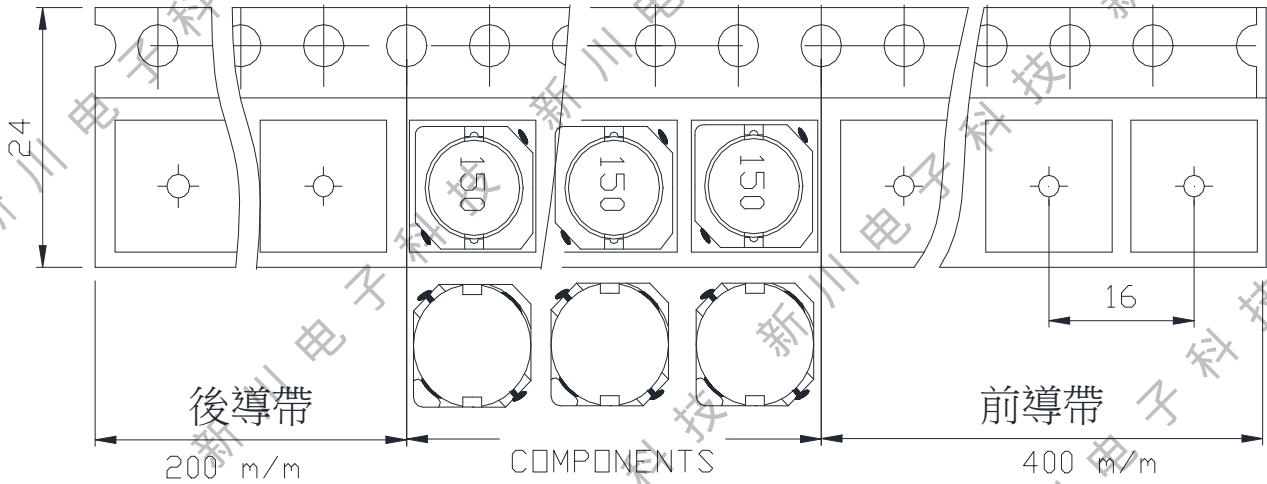
A test is made under the above mentioned condition , and it is kept for 2 hours in the normal



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

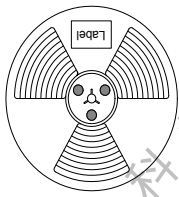
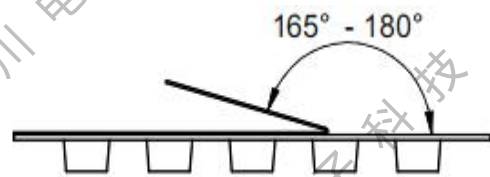
| | | | | | |
|----------------------|--------------------------|----------------------|-------------------|------------------|-------------|
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七.包装方式/PACKING LIST

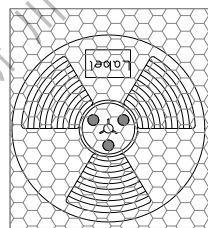


Transparent carrier and cover tape/透明载带和自粘上带

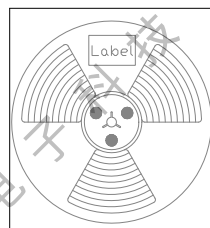
| Tape width | Distance | Pull-of force |
|------------|----------|---------------|
| 24 mm | 16 mm | 20~100g |



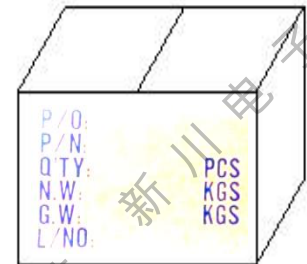
轮盘：13'(直径330mm)
数量：700PCS/盘



PE袋
数量：700PCS/袋



内盒
数量：1400PCS/盒



外箱，数量：7000PCS/箱
不足整箱用内盒或填充物
装满