



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 High Current Inductor  
PRODUCT TYPE

客户料号 -----  
CUSTOMER P/N

川磊料号 CLSI-500506 SERIES  
OURS P/N

文件编号 SP-21070607  
FILE NO.

|                        |               |              |
|------------------------|---------------|--------------|
| 客户承认/CUSTOMER ACCEPTED |               |              |
| 承认<br>APPROVED         | 确认<br>CHECKED | 承办<br>DESIGN |
|                        |               |              |
| 批注/REMARK              |               |              |

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

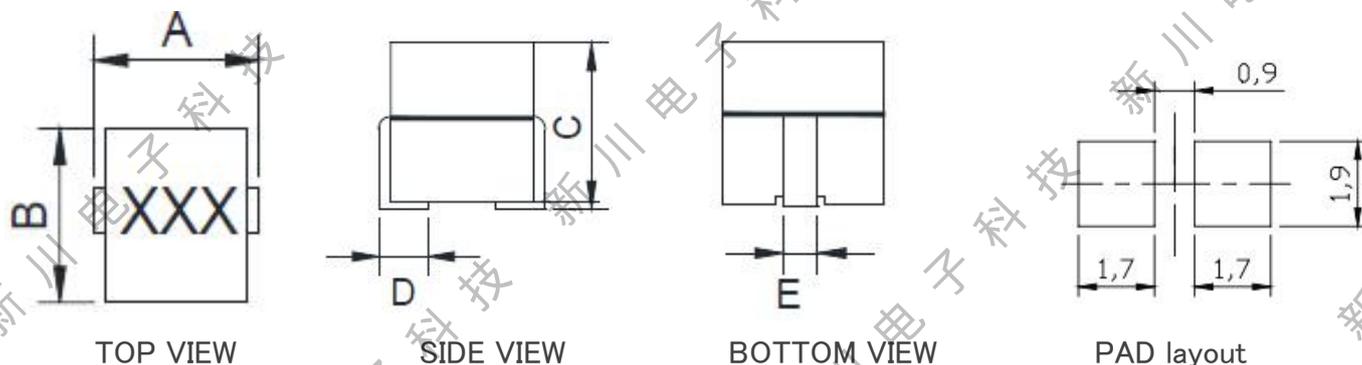
生产工厂：南充川磊电子科技有限公司  
销售公司：南充新川电子科技有限公司  
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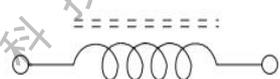
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|----------------------|--------------------------|----------------------|--------------------|------------------|-------------|
| 客户名称<br>CUSTOMER     | -----                    | 客户品名<br>CUSTOMER P/N | -----              | 版别<br>REV.       | A           |
| 产品类型<br>PRODUCT TYPE | High Current<br>Inductor | 新川品名<br>OURS P/N     | CLSI-500506 SERIES | 文件编号<br>FILE NO. | SP-21070607 |

一.尺寸图/DIMENSION (单位/UNIT : mm)



|      |     |     |     |      |      |  |  |  |  |
|------|-----|-----|-----|------|------|--|--|--|--|
| ITEM | A   | B   | C   | D    | E    |  |  |  |  |
| DIM  | 5.2 | 5.0 | 6.1 | 1.40 | 2.0  |  |  |  |  |
| TOLE | MAX | MAX | MAX | ±0.2 | ±0.2 |  |  |  |  |

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) | IDC1 (A) Max. | IDC2 (A) Max. | MARK |
|------------------|-----------------|-----------|--------------------|---------|---------------|---------------|------|
| CLSI-500506-50N□ | 0.05            | M N       | 100K/1V            | 0.2±7%  | 68            | 44.0          | 50N  |
|                  |                 |           |                    |         |               |               |      |
|                  |                 |           |                    |         |               |               |      |
|                  |                 |           |                    |         |               |               |      |

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

(2).IDC1:Base on temp.rise & ΔL/L0A 20% typ

(3).IDC2:Temp.rise 40°C Typ

(4).Operating temp.: -40°C to +125°C

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

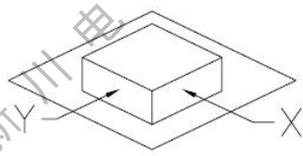
五.材料清单/MATERIAL LIST

| NO. | ITEM     | DESCRIPTION |
|-----|----------|-------------|
| 1   | CORE     | FERRITE     |
| 2   | CLIP     | C1100 P2    |
| 3   | ADHESIVE | 5890        |
| 4   | INK      | WHITE       |

|                      |                          |                      |                    |                  |             |
|----------------------|--------------------------|----------------------|--------------------|------------------|-------------|
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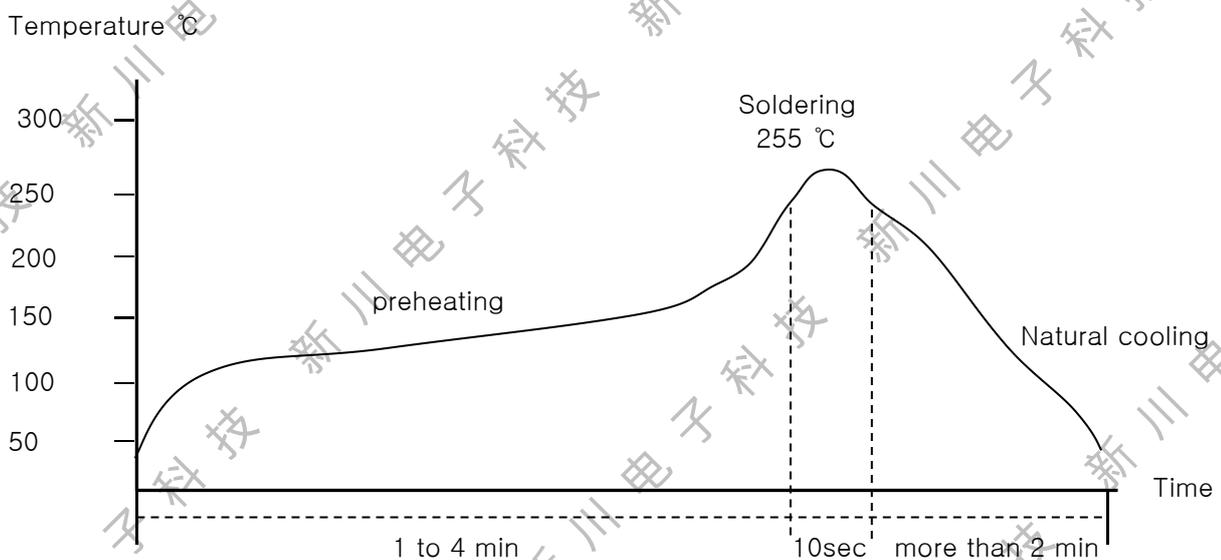
六.可靠性测试/RELIABILITY TESTING

|                                    |   |
|------------------------------------|---|
| 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.<br>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

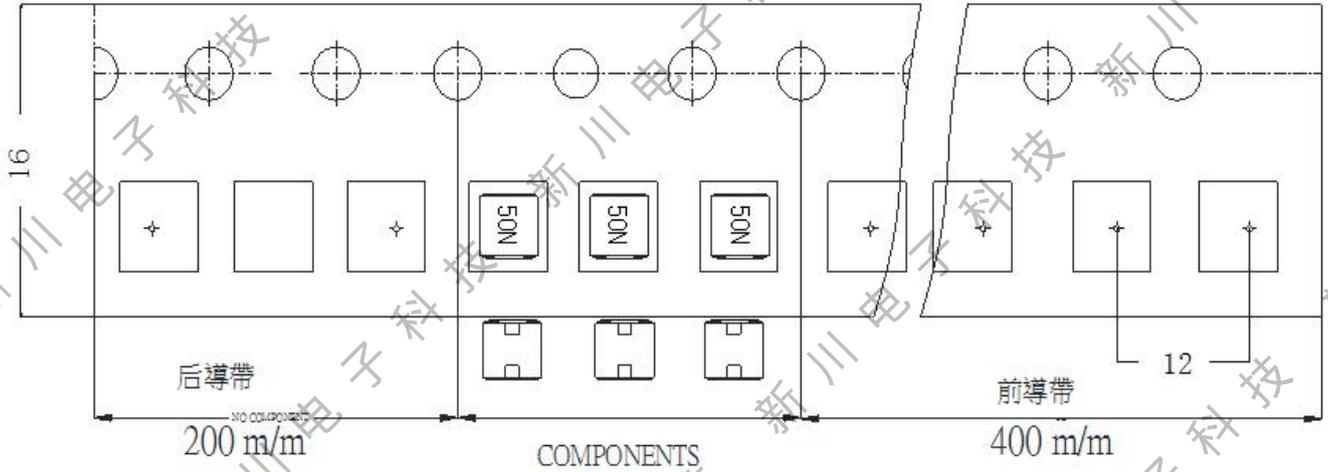
IR Reflow profile



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

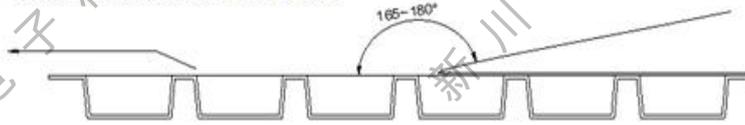
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七.编带规格/TAPING SPECIFICATIONS

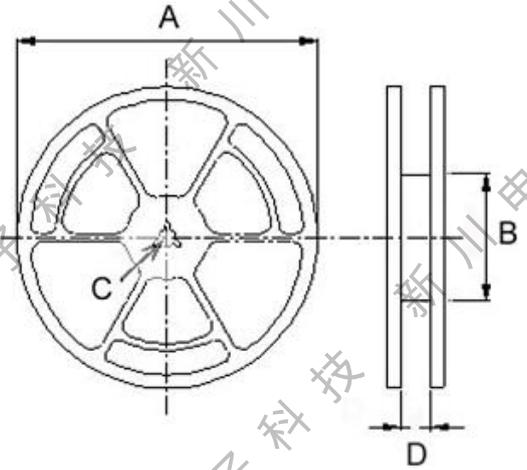


Transparent carrier and cover tape/透明载带和自粘上带

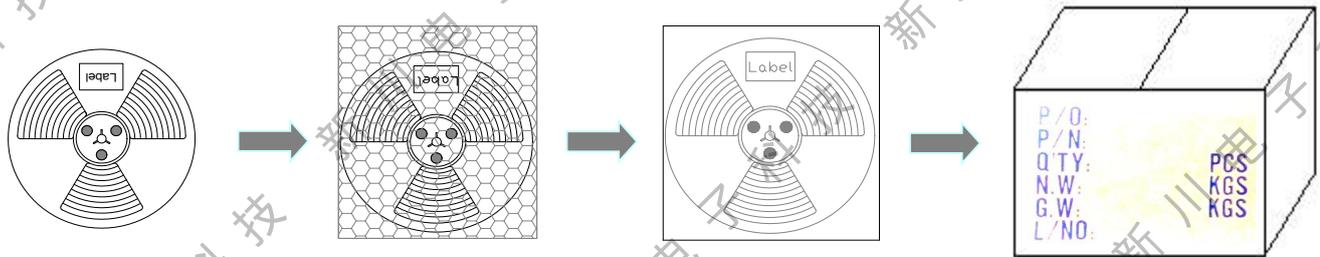
Adhesive strength of cover tape is 20 to 120 gf  
The conduction band direction



| Reel Dimensions (Unit: mm) |     |    |      | Quantity |
|----------------------------|-----|----|------|----------|
| A                          | B   | C  | D    | Pcs/Reel |
| 330                        | 100 | 13 | 16.5 | 700      |



八.包装方式/PACKING LIST



轮盘：13"(直径330mm)  
数量：700PCS/盘

PE袋  
数量：700PCS/袋

内盒  
数量：2100PCS/盒

外箱，数量：10500PCS/箱  
不足整箱用内盒或填充物  
装满