

#### **SPECIFICATION FOR APPROVAL**

| CUSTOMER:     | 鹿鸣                  |
|---------------|---------------------|
| CUSTOMER P/N  |                     |
| PART NO:      |                     |
| DESCRIPTION:  | SMD POWER INDUCTORS |
| PRODUCTS NO:  | CYSB1310TL-412      |
| PRODUCTS REV: | 1                   |
| DATE:         | 2018-7-20           |

| PURCHASER CONFIRMED |  |  |
|---------------------|--|--|
|                     |  |  |
|                     |  |  |
| REMARK              |  |  |

| PROVIDER ENGINEER DEPT. |          |           |  |
|-------------------------|----------|-----------|--|
| APPROVAL BY             | CHECK BY | DRAWN BY  |  |
|                         |          | chenlinli |  |



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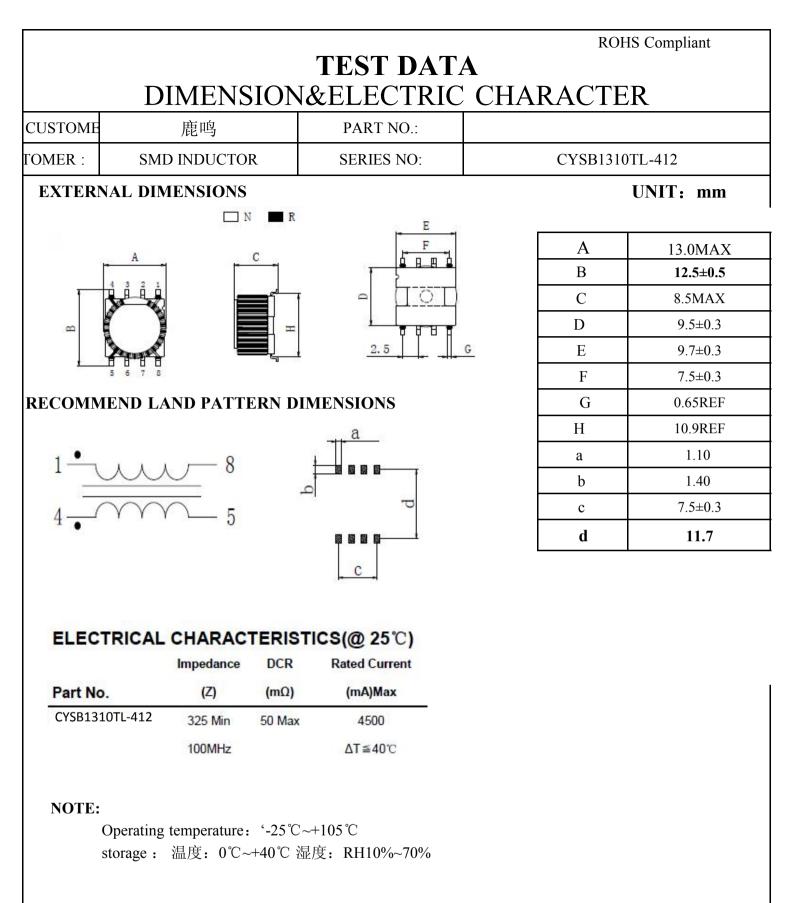
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# **REVISION NOTES**

| NO. | Date      | Description of Revision |  |  |
|-----|-----------|-------------------------|--|--|
| 1   | 2018-7-20 | 首次送樣                    |  |  |
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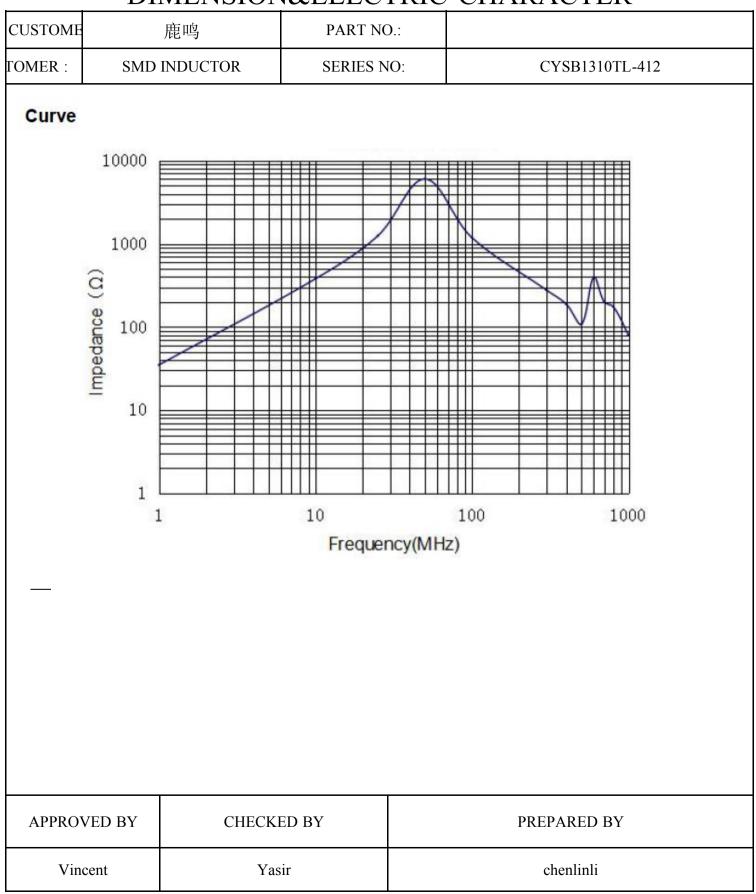
APPROVED BY: Vincent

CHECKED BY: Yasir

DRAWN BY: chenlinli

**Rohs Compliant** 

## **TEST DATA** DIMENSION&ELECTRIC CHARACTER



**ROHS** Compliant

### **TEST DATA** DIMENSION&ELECTRIC CHARACTER

| USTOME   | 鹿鸣  | PART NO.:   |                                  |         |
|--|---|---|----------------------------------|---------|
| OMER :   | SMD INDUCTOR  | SERIES NO:  | CYSB1310TL-412                   | 2       |
| Material Li  | st  |   |                                  |         |
| No. Item   | Material  | Specification   | Supplier                         | UL      |
| a Core   | Ferrite core  | K8BT8*4*4   | KingCore OR EQU                  |         |
| Wire   | Enamelled copper w  | G2P180  | ELEKTRISOLA OR EQU               | E258243 |
| BASE   | Plastic Base  | DAP9100<br>C5191 (PIN)  | WAH HONG OR EQU<br>JINMEL OR EQU |         |
| d Adhesive   | Epoxy resin   | ST-500  | SANTOGN OR EQU                   |         |
| e Terminal   | Sn /Cu  | N107H   | THOUSAND OR EQU                  |         |
| Recomm   | nended Soldering Te   | emperature Graph  |                                  |         |
| 150  |   |   |                                  |         |
| 150  | 90s±30s<br>Standard E   | 30∼60s<br>→<br>30s max.<br>Time(s)  | rd Profile                       |         |
|  | 90s±30s<br>Standard F   | 30∼60s<br>→<br>30s max.<br>Time(s)<br>Profile Limit Pro   |                                  |         |
| 150  | <del>&lt; −−−→</del>  | 30~60s<br>→<br>30s max.<br>Time(s)<br>Profile Limit Pro<br>150~180℃、90s±30s   | file                             |         |
| Pre-heating  | ← → <br>Standard F<br>above 220℃、                               | 30~60s       30s max.       Time(s)       Profile       150~180℃、90s±30s       30s-60s       above 240℃、                      | file<br>30s max                  |         |
| Pre-heating<br>Heating                                 | ← → <br>Standard F<br>above 220℃、<br>rature 245℃±3              | 30~60s       30s max.       Time(s)       Profile       150~180℃、90s±30s       30s-60s       above 240℃、       3℃       260℃、 | file<br>30s max<br>10s           |         |
| Pre-heating<br>Heating<br>Peak temper                  | ← → <br>Standard F<br>above 220℃、<br>rature 245℃±3<br>ow 2 time | 30~60s       30s max.       Time(s)       Profile       150~180℃、90s±30s       30s-60s       above 240℃、       3℃       260℃、 | file<br>30s max<br>10s           |         |
| Pre-heating<br>Heating<br>Peak temper<br>Cycle of refk | ← → <br>Standard F<br>above 220℃、<br>rature 245℃±3<br>ow 2 time | 30~60s  | file<br>30s max<br>10s<br>s      | D BY    |

| GENERAL CHAR                   | ACTERISTICS page. 1  |  |
|--------------------------------|--|--|
| Operation Temperature          | -40°C to +125°C (Includes temperature when the coil is heated)   |  |
| External Appearance            | On visual inspection, the coil has no external defects.  |  |
| Solder Ability Test            | More than 90% of terminal electrode should be covered with solder.<br>1 After fluxing, component shall be dipped in a mel<br>dipped in a melted.<br>Solder:bath at 235°C $\pm$ 5°C for 5 $\pm$ 0.5senonds<br>150°C $= \frac{60}{5\pm0.5} = \frac{60}{5\pm0.5} = \frac{1}{5\pm0.5} = \frac{1}{5\pm$ |  |
| Heat endurance of<br>Soldering | <ul> <li>1.Components should have not evidence of electrical and mechanical damage.</li> <li>2.Inductance: within±10% of initial value.</li> <li>3.Impedance: within±10% of initial value.</li> <li>Preheat:150±5°C 60seconds.</li> <li>Solder temperature: 250±5°C.</li> <li>Flux: rosin.</li> <li>Dip time:10±0.5 seconds.</li> </ul>  |  |
| Terminal Strength              | After soldering of X,Y withstanding at below conditions .The terminal should not Peel<br>off. (Refer to figure at below)<br>5N y   |  |
| Insulating Resistance          | Over $100M\Omega$ at 100V D.C. between coil and core.  |  |
| Dielectric Strength            | No dielectric breakdown at 30V D.C. for 1 minute between coil and core.  |  |
| VibrationTest                  | Inductance deviation within +10% after vibration for 1 hour. In each of three orientations at sweep vibration(10-~55-~10HZ)with 1.5mmP-P amplitudes  |  |
| Drop test                      | Inductance deviation within +10% after being dropped once with 981m/s2 (100G) shock Attitude upon a rubber block method shock testing machine, in three different orientations   |  |
|                                | dling<br>lity of terminal electrodes:<br>dity conditions: less than 40°C and 70% RH.   |  |

(2) Products should be used within 6 months.

(3) The packaging material should be kept where no chlorine or sulfur exists in the air.

2. Handling

(1) Do not touch the electrodes(soldering terminals) with fingers as this may lead to deterioration of solderability.

(2) The use of tweezers or vacuum pick-ups is strongly recommended for individual components.

(3) Bulk handling should ensure that abrasion and mechanical shock are minimized.

| GENERAL CHARACTE  | ERISTICS  | page. 2  |
|---|---|--|
| TEST  | Required Characteristics  | Test Method/Condition  |
| High Temperature StorageTest<br>Reference documents:<br>MIL-STD-202G Method108A | <ol> <li>No case deformation or change<br/>in appearance</li> <li>△L/L≤10%</li> <li>△Q/Q≤30%</li> <li>△DCR/DCR≤10%</li> </ol> | Temp<br>125°C<br>High temperature<br>25°C<br>0°C<br>High temperature<br>1H<br>1H<br>96H<br>Test Time<br>76H<br>Test Time<br>Temperature: 125°C±2°C Time: 96±2 hours.<br>Tested not less than 1 hour, nor more than 2<br>hours at room.   |
| Low Temperature Storage Test<br>Reference documents:<br>IEC 68-2-1A 6.1 6.2     | <ol> <li>No case deformation or change<br/>in appearance</li> <li>△L/L≦10%</li> <li>△Q/Q≦30%</li> <li>△DCR/DCR≦10%</li> </ol> | 25°C 96H Test<br>0°C High temperature<br>40°C Temperature:-40°C±2°C Time:96±2 hours.<br>Tested not less than 1 hour, nor more than 2<br>hours at room.   |
| Humidity Test<br>Reference documents:<br>MIL-STD-202G Method103B                | <ol> <li>No case deformation or change<br/>in appearance</li> <li>△L/L≦10%</li> <li>△Q/Q≦30%</li> <li>△DCR/DCR≦10%</li> </ol> | <ul> <li>Temp&amp;Humidity</li> <li>93%RH</li> <li>High temperature</li> <li>High humidity</li> <li>96H</li> <li>Test Time</li> </ul> 1. Dry oven at a temperature of 40°C±2°C for 96hours 2. Measurements At the end of this period 3. Exposure: Temperature: 40°C±2°C. Humidity:93±2hoyrs. 4. Tested while the chamber. 5. Tested not less than 1 hour. Nor more than 2 hours at room temperature. |
| Thermal Shock Test<br>Reference documents:<br>MIL-STD-202G Method107G           | <ol> <li>No case deformation or change<br/>in appearance</li> <li>△L/L≦10%</li> <li>△Q/Q≦30%</li> <li>△DCR/DCR≦10%</li> </ol> | First-40°C for 30 Minutes, last 125°C for 30<br>Minutes as 1 cycle. Go through 20 cycles.  |

#### ■Application Notice/Handling

(1) Temperature and humidity conditions : less than 40°C and 70% RH.

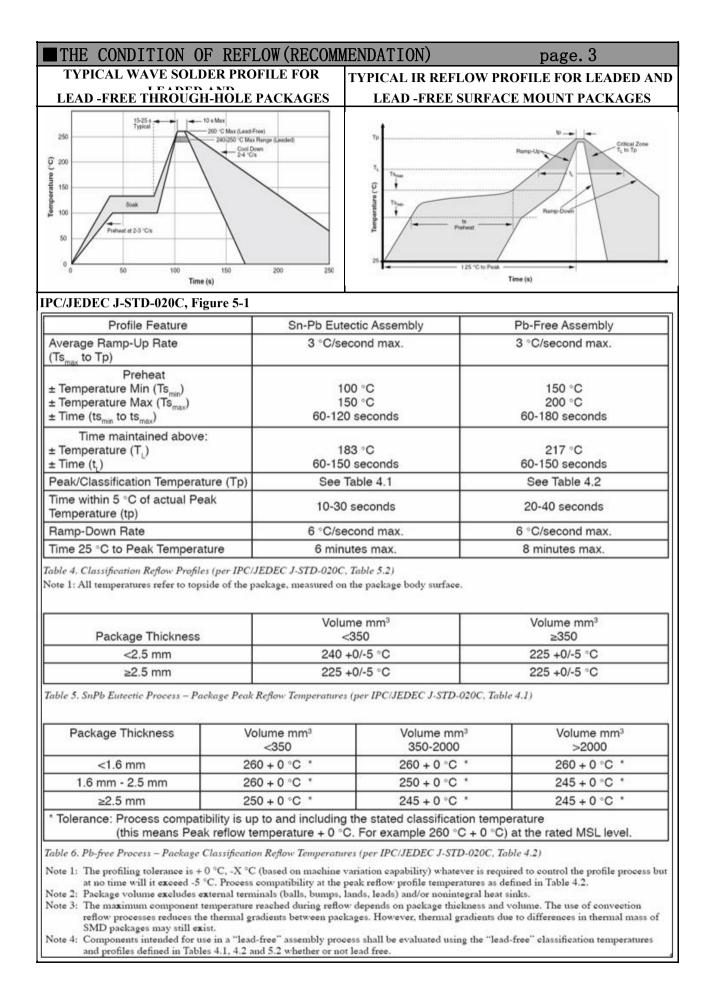
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