

#### **SPECIFICATION FOR APPROVAL**

CUSTOMER:	鹿鸣
CUSTOMER P/N	
PART NO:	
DESCRIPTION:	SMD POWER INDUCTORS
PRODUCTS NO:	CYSMB100805TL-4T-701R
PRODUCTS REV:	1
DATE:	2018-7-20

PURCHASER CONFIRMED		
REMARK	•	

PROVIDER ENGINEER DEPT.			
APPROVAL BY	CHECK BY	DRAWN BY	
Vincent	Yasir	chenlinli	



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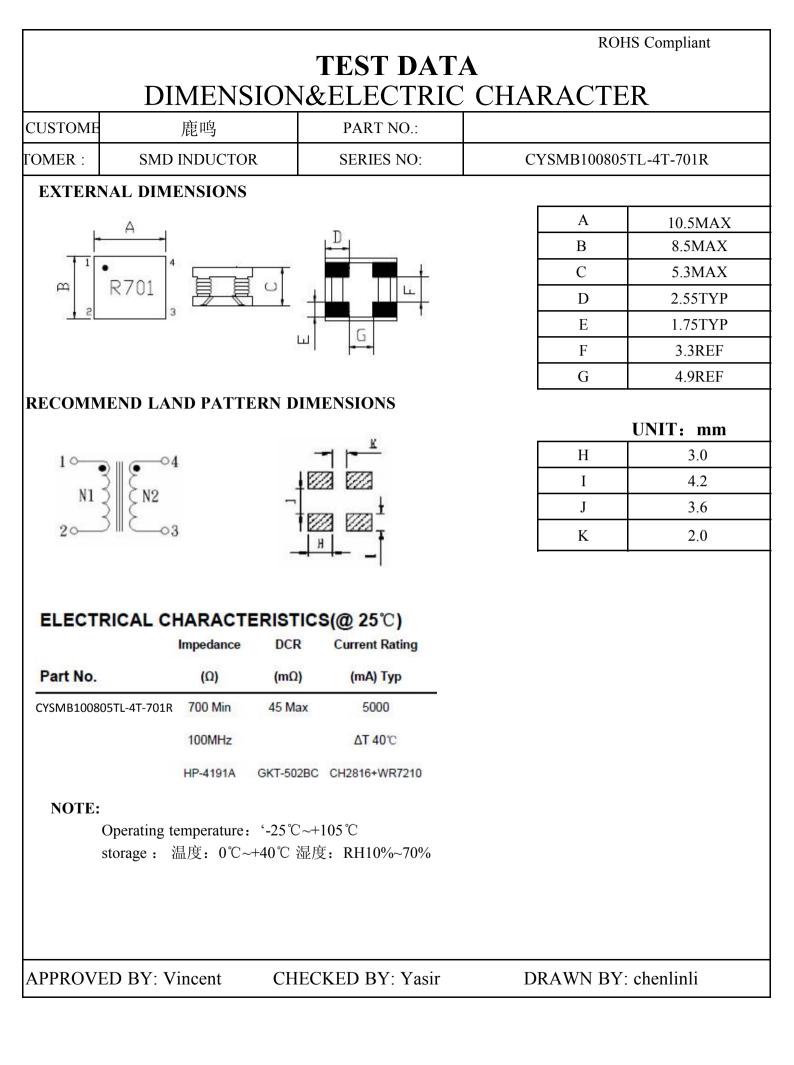
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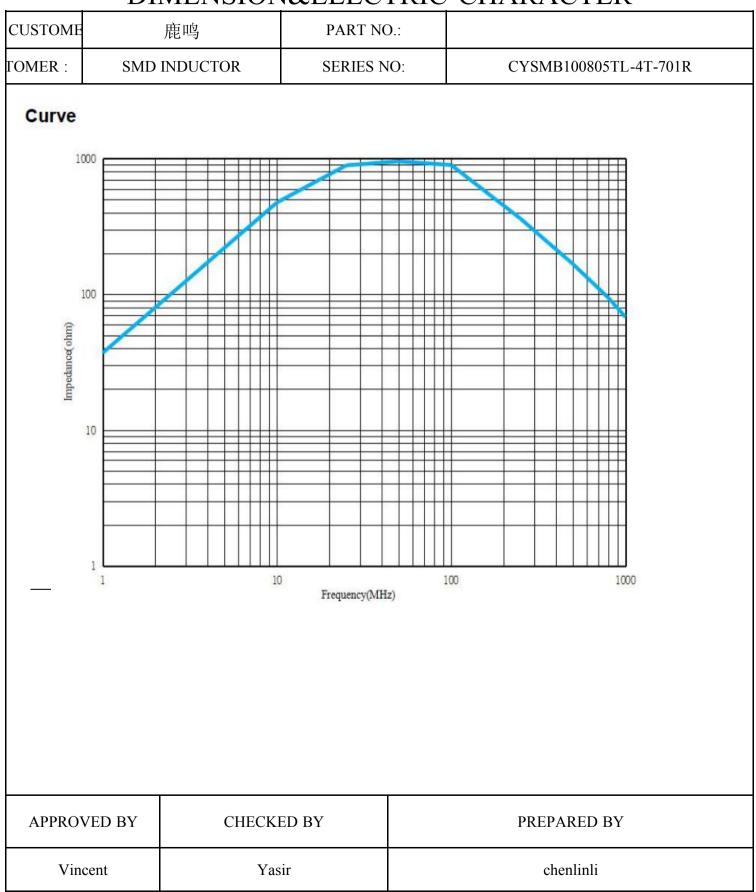
# **REVISION NOTES**

NO.	Date	Description of Revision
1	2018-7-20	首次送樣



**Rohs Compliant** 

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



**ROHS** Compliant

## **TEST DATA**

### DIMENSION&ELECTRIC CHARACTER

MER :	鹿鸣	PART NO.:			
	SMD INDUCTOR	SERIES NO	:	CYSMB100805TL-4T-70	)1R
Material	List				
lo. Item	Material	Specificatio	n	Supplier	UL
Core	Ferrite	SMB CORE		SINCORE OREQU	
Wire	Enamelled copper	wire G1P180		ELEKTRISOLA OREQU	E25824
: Termin	nal Sn /Cu	N107H		THOUSAND OREQU	
180		$30 \sim 60s$ 30 s max.	nit Profile Standard Profile		
2		505 max.			
	< 90s±30s →	Time(s)	0.51.01	1	
Pre-heating	← →  Standard F	Time(s) Profile Lin	mit Profile	1	
Pre-heating Heating	← →  Standard F	Time(s) Profile Lin 150~180°C 、90s±30s	mit Profile 40℃、30s max		
1.2	← →  Standard F above 220℃、	Time(s)           Profile         Lin           150~180°C \ 90s±30s           30s-60s         above 2			

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. 1 After fluxing, component shall be dipped in a mel dipped in a melted. Solder:bath at 235°C $\pm$ 5°C for 5 $\pm$ 0.5senonds 150°C $= \frac{60}{5\pm0.5} = \frac{60}{5\pm0.5} = \frac{1}{5\pm0.5} = \frac{1}{5\pm$		
Heat endurance of 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 off. (Refer to figure at below) 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 lity of terminal electrodes: 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 Reference documents: MIL-STD-202G Method108A	<ol> <li>No case deformation or change in appearance</li> <li>△L/L≤10%</li> <li>△Q/Q≤30%</li> <li>△DCR/DCR≤10%</li> </ol>	Temp 125°C High temperature 25°C 0°C High temperature 1H 1H 96H Test Time 76H Test Time Temperature: 125°C±2°C Time: 96±2 hours. Tested not less than 1 hour, nor more than 2 hours at room.
Low Temperature Storage Test Reference documents: IEC 68-2-1A 6.1 6.2	<ol> <li>No case deformation or change in appearance</li> <li>△L/L≦10%</li> <li>△Q/Q≦30%</li> <li>△DCR/DCR≦10%</li> </ol>	25°C 96H Test 0°C High temperature 40°C Temperature:-40°C±2°C Time:96±2 hours. Tested not less than 1 hour, nor more than 2 hours at room.
Humidity Test Reference documents: MIL-STD-202G Method103B	<ol> <li>No case deformation or change 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 Reference documents: MIL-STD-202G Method107G	<ol> <li>No case deformation or change 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 Minutes as 1 cycle. Go through 20 cycles.

#### ■Application Notice/Handling

(1) Temperature and humidity 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.

(4) Do not touch the electrodes (soldering terminals) with fingers as this may lead to deterioration of solder ability

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

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

