

SPECIFICATION FOR APPROVAL

CUSTOMER:	鹿鸣
CUSTOMER P/N	
PART NO:	
DESCRIPTION:	SMD POWER INDUCTORS
PRODUCTS NO:	CYSCM1513FTL-SERIES
PRODUCTS REV:	1
DATE:	2018-7-20

PURCHASER CONFIRMED		
REMARK		

PROVIDER ENGINEER DEPT.			
APPROVAL BY CHECK BY DRAWN BY			
		chenlinli	



誠陽實業有限公司 TAIWAN CHENG YANG COMPONENT CORP

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CHINA FACTORY

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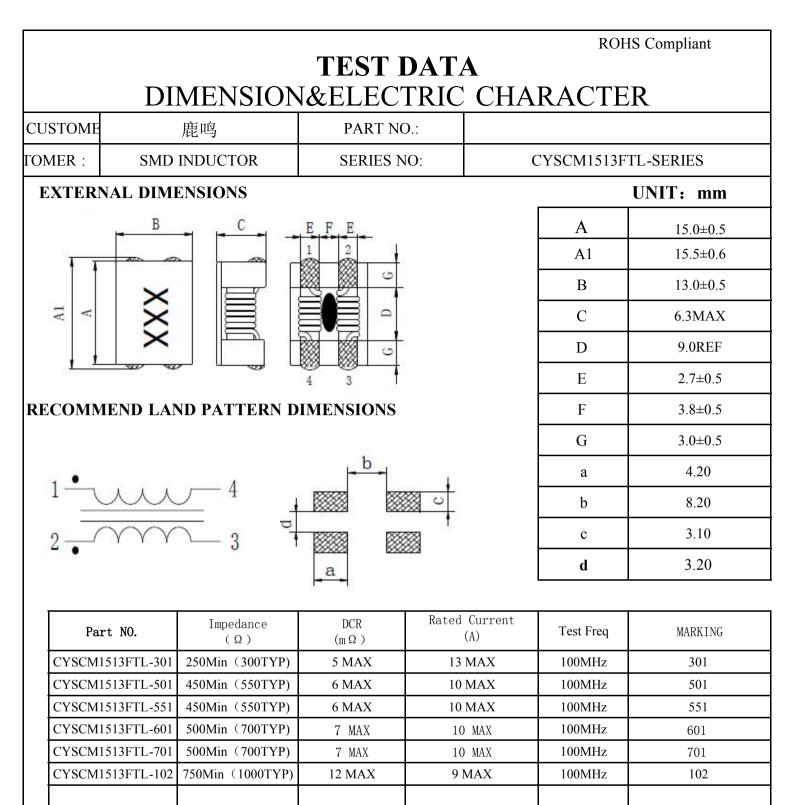
POSTAL CODE: 519085 TEL NO:86-756-3383187 FAX NO:86-756-3380704 E-mail:



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REVISION NOTES

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



Rated Current: $\Delta T \leq 40^{\circ} C Typ$

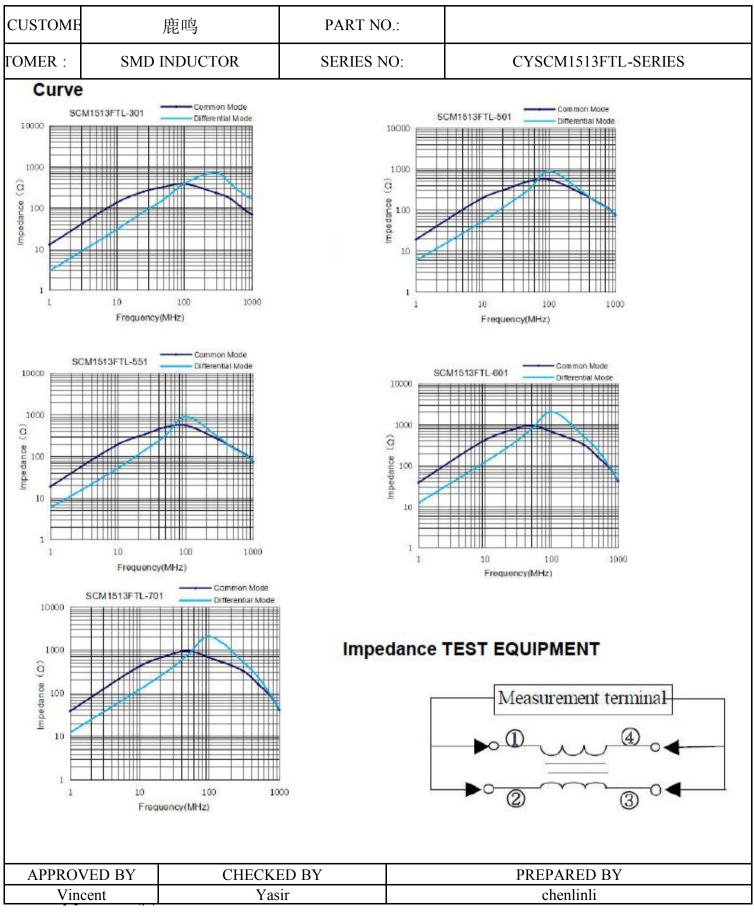
NOTE:

Operating temperature: $-40^{\circ}C \sim +125^{\circ}C$ storage: 温度: 0℃~+40℃ 湿度: RH10%~70%

APPROVED BY: Vincent CHECKED BY: Yasir DRAWN BY: chenlinli

Rohs Compliant

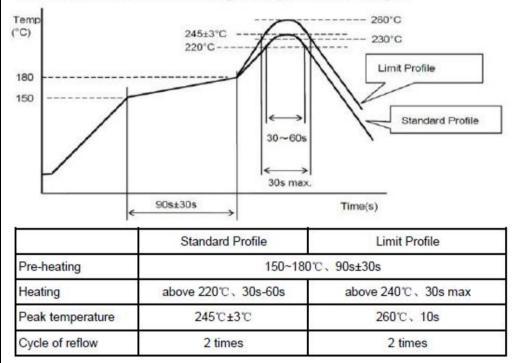
TEST DATA DIMENSION&ELECTRIC CHARACTER



TEST DATA DIMENSION&ELECTRIC CHARACTER

			COLLECTION C		
CUS	TOME	鹿鸣	PART NO.:		
OM	ER :	SMD INDUCTOR	SERIES NO:	CYSCM1513FTL-	SERIES
Ma	terial List				
No.	Item	Material	Specification	Supplier	UL
а	Core	Ferrite core	ICORE	FYE OR EQU	
b	Wire	Enamelled copper wire	G1P180	ELEKTRISOA OR EQU	E258243
С	Base	Plastic	E4008MRB	SUMITOMO OR EQU	
d	Adhesive	Epoxy resin	ST-500	SANTONG OR EQU	
е	Terminal	Sn /Cu	Sn99.3:Cu0.7	THOUSAND OR EQU	

Recommended Soldering Temperature Graph



Product photos



APPROVED BY	CHECKED BY	PREPARED BY
Vincent	Yasir	chenlinli

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	 1.Components should have not evidence of electrical and mechanical damage. 2.Inductance: within±10% of initial value. 3.Impedance: within±10% of initial value. Preheat:150±5°C 60seconds. Solder temperature: 250±5°C. Flux: rosin. Dip time:10±0.5 seconds. 		
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 Ω 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	 No case deformation or change in appearance △L/L≤10% △Q/Q≤30% △DCR/DCR≤10% 	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	 No case deformation or change in appearance △L/L≦10% △Q/Q≦30% △DCR/DCR≦10% 	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	 No case deformation or change in appearance △L/L≦10% △Q/Q≦30% △DCR/DCR≦10% 	 Temp&Humidity 93%RH High temperature High humidity 96H Test Time 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	 No case deformation or change in appearance △L/L≦10% △Q/Q≦30% △DCR/DCR≦10% 	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.

