

#### 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

2F-1, NO. 176, Chine-Yi Road., Zhonghe District, New Taipei City, 新北市中和區建一路176號2樓之一 POSTAL CODE: 23500 TEL NO .: +886-2- 8228-0930 FAX NO .: +886-2-8228-0929 E-



CHINA FACTORY

寶誠電子有限公司 ZHUHAI BAO CHENG ELECTRONICSCO.,LTD Guan Tang Industrial Park, Tang Jia Wan Town, Zhuhai City, Guangdong 中國廣東省珠海市塘家灣鎮官塘工業區

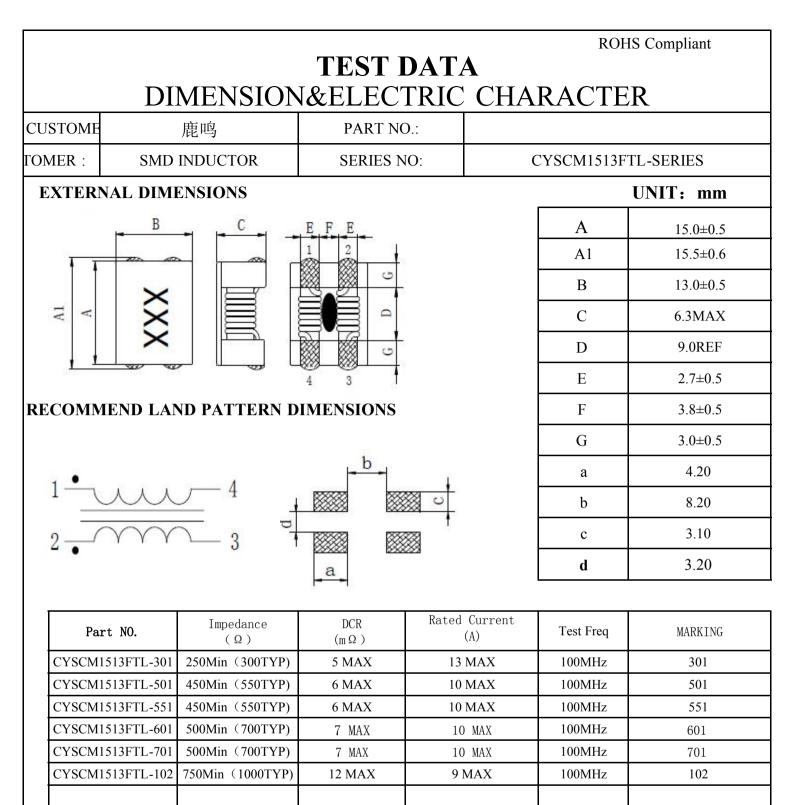
POSTAL CODE: 519085 TEL NO:86-756-3383187 FAX NO:86-756-3380704 E-mail:



昆山誠陽電子有限公司 KUNSHAN CHENG YANG ELECTRONICSCO., LTDP Qiang-An Road., High-Tech. Industrial Park, Kunshan City, Jiangsu Province, 江蘇省昆山市高科技工業園區強安路38號 POSTAL CODE: 215300 TEL NO:86-512-57823500 FAX NO:86-512-57823503 E-mail: kscy@taiwan-che

# **REVISION NOTES**

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



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

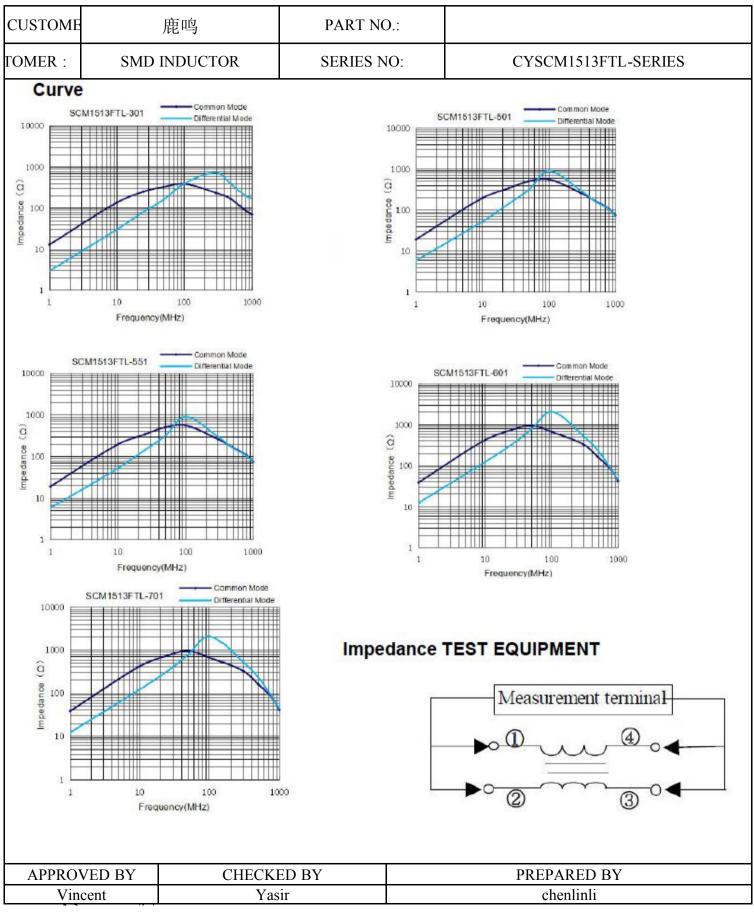
NOTE:

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** 

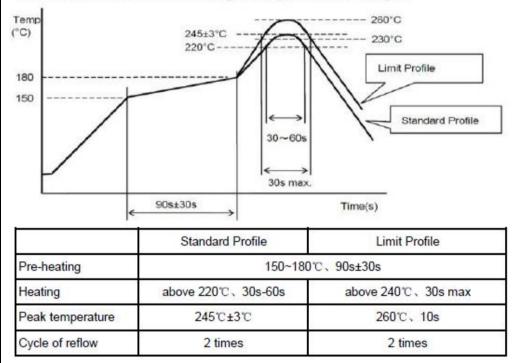
## **TEST DATA** DIMENSION&ELECTRIC CHARACTER



# **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	<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.

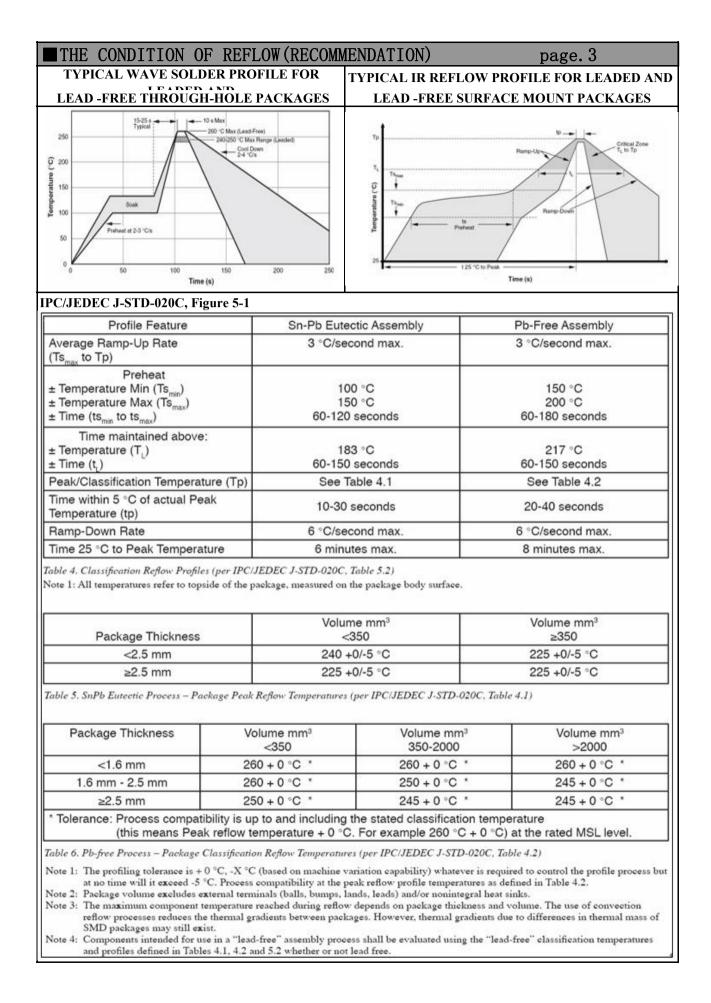
(2) Products should be used within 6 months.

(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.



### **X-ON Electronics**

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Common Mode Chokes / Filters category:

Click to view products by Bao Cheng manufacturer:

Other Similar products are found below :

 RGCMF1210900H3T
 B82722A2102N001
 UAL21V07012500
 UAL24VR06500CH
 UALSC0220G0000
 UALSC05800000

 UALSC0580J0000
 UALSC1520JH000
 UALSU10VR15019
 UALSU10VR20010
 UALSU16VD30030
 UALSU16VD40010

 UALSU9H0305000
 UALSU9HF030600
 UALSU9HF060300
 UALSU9HR050340
 UALSU9VD070100
 UALSU9VR070170
 5701610000

 CM7060M132R-10
 UALW21HS200290
 UALW21HS072450
 UALSU9VD070400
 UALSU9V0701000
 UALSU9HR030900

 UALSU9HF050500
 UALSU9H0701000
 UALSU9H0208000
 UALSU9H0110000
 UALSC0305GS000

 UALSC0120G0000
 UAL24VK06450CH
 UAL11VL1105000
 RN112-3.6-02-0M4
 RN114-1.2-02-10M
 RN122-0.6-02-47M
 RN122-3-02-4M5

 RN142-1-02-33M
 RN214-2.5-02-3M3
 RN112-2-02-1M0
 RN143-6-02-1M8
 RN214-0.8-02-27M
 RN242-1.4-02-27M
 EXC-X4CH120X

 DLW5BTM102TQ2L
 CMF16-153131
 CMF23H-273141
 744252510
 B82793C0253N201