

SPECIFICATION FOR APPROVAL

CUSTOMER:	鹿鸣
CUSTOMER P/N	
PART NO:	
DESCRIPTION:	SMD POWER INDUCTORS
PRODUCTS NO:	CYSCM1211FTL-SERIES
PRODUCTS REV:	1
DATE:	2018-7-19

	PU.	RCHASER CONFIRME	ED
REMARK			

PROVIDER ENGINEER DEPT.			
APPROVAL BY CHECK BY DRAWN BY			
		chenlinli	

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CHINA FACTORY



REVISION NOTES

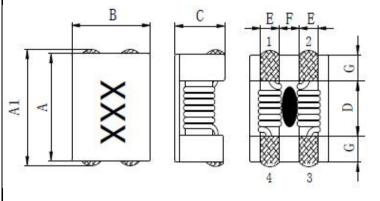
NO.	Date	Description of Revision
1	2018-7-19	首次送樣
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ROHS Compliant

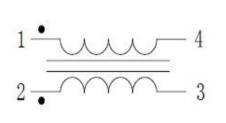
TEST DATADIMENSION&ELECTRIC CHARACTER

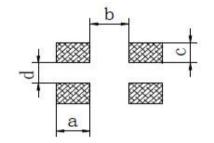
CUSTOME	鹿鸣	PART NO.:	
ΓOMER :	SMD INDUCTOR	SERIES NO:	CYSCM1211FTL-SERIES

EXTERNAL DIMENSIONS



RECOMMEND LAND PATTERN DIMENSIONS





	UNIT: mm
A	12.0±0.5
A1	12.5±0.6
В	10.8±0.5
С	6.4MAX
D	7.0REF
Е	2.7±0.5
F	2.5±0.5
G	2.5±0.5
a	3.90
b	6.10
С	3.10
d	2.30

Part NO.	Impedance (Ω)	DCR (mΩ)	Rated Current (A)	Test Freq	MARKING
CYSCM1211FTL-800	80Min (230TYP)	4.0 MAX	10.0 MAX	100MHz	800
CYSCM1211FTL-701	500Min (700TYP)	6.0 MAX	8.0 MAX	100MHz	701
CYSCM1211FTL-801	600Min (800TYP)	8.0 MAX	8.0 MAX	100MHz	801
CYSCM1211FTL-102	750Min(1000TYP)	14.0 MAX	6.0 MAX	100MHz	102
CYSCM1211FTL-222	2200Min (2500TYP)	35.0 MAX	1.80 MAX	100MHz	222
CYSCM1211FTL-272	2300Min (2700TYP)	50.0 MAX	1.50 MAX	100MHz	272

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

NOTE:

Operating temperature: '-40°C~+125°C

storage: 温度: 0℃~+40℃ 湿度: RH10%~70%

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

TEST DATA

DIMENSION&ELECTRIC CHARACTER

	DIMENSIC	JN&ELEC.	IKIC	CHARACTER	
CUSTOME	鹿鸣	PART NO).:		
ΓOMER :	SMD INDUCTOR	SERIES N	O:	CYSCM1211FTL-SERIES	
Curve 1000 1000 1000 1000 1000 1000 1000 1	To 100 Frequency(MHz) SCM1211FTL-102 To 100 Frequency(MHz) SCM1211FTL-102 To 100 Frequency(MHz)	ammon Mode cerential Mode 10000 100	SCM12	Differential Mode	
APPROV		CKED BY		PREPARED BY	
Vinc	ent	Yasir		chenlinli	

TEST DATA

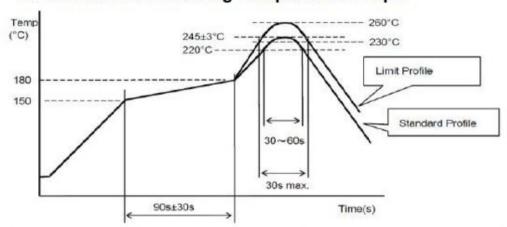
DIMENSION&ELECTRIC CHARACTER

CUSTOME	鹿鸣	PART NO.:	
ΓOMER :	SMD INDUCTOR	SERIES NO:	CYSCM1211FTL-SERIES

Material List

No	Item	Material	Specification	Supplier	UL
a	Core	Ferrite core	I CORE	SINCORE OR EQU	
b	Wire	Enamelled copper wire	G1P180	ELEKTRISOA OR EQU	E258243
С	Base	Plastic	CS-SCM1211-DY	DY OR EQU	
d	Adhesive	Epoxy resin	ST-500	ST OR EQU	
е	Terminal	Sn /Cu	Sn99.3:Cu0.7	THOUSAND OR EQU	

Recommended Soldering Temperature Graph



	Standard Profile	Limit Profile
Pre-heating	150~180	℃、90s±30s
Heating	above 220℃、30s-60s	above 240°C√ 30s max
Peak temperature	245°C±3°C	260℃、10s
Cycle of reflow	2 times	2 times

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	l is heated)	
External Appearance	On visual inspection, the coil has no external defects.		
	More than 90% of terminal electrode should be covered with solder.		
Solder Ability Test	Solder:bath at 235 °C \pm 5 °C for 5 \pm 0.5senonds	Preheating Dipping Natural cooling	
Heat endurance of Soldering	1.Components should have not evidence of electrical 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±0.5seconds.	Preheating Dipping Natural cooling	
Terminal Strength	After soldering of X,Y withstanding at below condition off. (Refer to figure at below)	ons .The terminal should not Peel	
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 be	etween coil and core.	
VibrationTest	Inductance deviation within +10% after vibration for orientations at sweep vibration(10-~55-~10HZ)with	1.5mmP-P amplitudes	
Drop test	Inductance deviation within +10% after being dropped shock Attitude upon a rubber block method shock te orientations		

v Application Notice/Handling

1. Storage Conditions

To maintain the solder ability of terminal electrodes:

- (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.
- 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% 	High temperature 25°C High temperature 1H 1H 96H 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% 	
Humidity Test Reference documents: MIL-STD-202G Method103B	 No case deformation or change in appearance ΔL/L≤10% ΔQ/Q≤30% ΔDCR/DCR≤10% 	
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

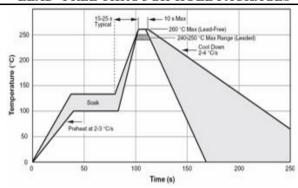
- (1) Temperature and humidity conditions: less than 40°C and 70% RH.
- (2) Products should be used within 6 months.
- (3) The packaging material should be kept where no chlorine or sulfur exists in the air.
- (4) Do not touch the electrodes (soldering terminals) with fingers as this may lead to deterioration 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.

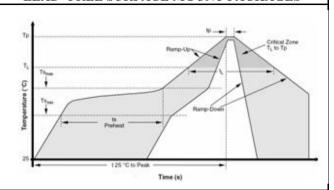
■THE CONDITION OF REFLOW(RECOMMENDATION)

page. 3

TYPICAL WAVE SOLDER PROFILE FOR LEAD -FREE THROUGH-HOLE PACKAGES

TYPICAL IR REFLOW PROFILE FOR LEADED AND LEAD -FREE SURFACE MOUNT PACKAGES





IPC/JEDEC J-STD-020C, Figure 5-1

Profile Feature	Sn-Pb Eutectic Assembly	Pb-Free Assembly 3 °C/second max.	
Average Ramp-Up Rate (Ts _{max} to Tp)	3 °C/second max.		
Preheat ± Temperature Min (Ts _{min}) ± Temperature Max (Ts _{max}) ± Time (ts _{min} to ts _{max})	100 °C 150 °C 60-120 seconds	150 °C 200 °C 60-180 seconds	
Time maintained above: ± Temperature (T _L) ± Time (t _L)	183 °C 60-150 seconds	217 °C 60-150 seconds	
Peak/Classification Temperature (Tp)	See Table 4.1	See Table 4.2	
Time within 5 °C of actual Peak Temperature (tp)	10-30 seconds	20-40 seconds	
Ramp-Down Rate	6 °C/second max.	6 °C/second max.	
Time 25 °C to Peak Temperature	6 minutes max.	8 minutes max.	

Table 4. Classification Reflow Profiles (per IPC/JEDEC J-STD-020C, Table 5.2)

Note 1: All temperatures refer to topside of the package, measured on the package body surface.

Package Thickness	Volume mm³ <350	Volume mm³ ≥350
<2.5 mm	240 +0/-5 °C	225 +0/-5 °C
≥2.5 mm	225 +0/-5 °C	225 +0/-5 °C

Table 5. SnPb Eutectic Process - Package Peak Reflow Temperatures (per IPC/JEDEC J-STD-020C, Table 4.1)

Package Thickness	Volume mm³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
<1.6 mm	260 + 0 °C *	260 + 0 °C *	260 + 0 °C *
1.6 mm - 2.5 mm	260 + 0 °C *	250 + 0 °C *	245 + 0 °C *
≥2.5 mm	250 + 0 °C *	245 + 0 °C *	245 + 0 °C *

^{*} Tolerance: Process compatibility is up to and including the stated classification temperature (this means Peak reflow temperature + 0 °C. For example 260 °C + 0 °C) at the rated MSL level.

Table 6. Pb-free Process - Package Classification Reflow Temperatures (per IPC/JEDEC J-STD-020C, Table 4.2)

Note 1: The profiling tolerance is +0 °C, -X °C (based on machine variation capability) whatever is required to control the profile process but at no time will it exceed -5 °C. Process compatibility at the peak reflow profile temperatures as defined in Table 4.2.

Note 2: Package volume excludes external terminals (balls, bumps, lands, leads) and/or nonintegral heat sinks.

Note 3: The maximum component temperature reached during reflow depends on package thickness and volume. The use of convection reflow processes reduces the thermal gradients between packages. However, thermal gradients due to differences in thermal mass of SMD packages may still exist.

Note 4: Components intended for use in a "lead-free" assembly process shall be evaluated using the "lead-free" classification temperatures and profiles defined in Tables 4.1, 4.2 and 5.2 whether or not lead free.

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