

# SPECIFICATION FOR APPROVAL

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**JENG SHI ELECTRONICS CO., LTD**

**正 旭 電 子 有 限 公 司**



DATE: \_\_\_\_\_

CUSTOMER: \_\_\_\_\_

PART NUMBER: SCM1513FCTL-SERIES

CUSTOMER P.N : \_\_\_\_\_

DESCRIPTION: \_\_\_\_\_

APPLICATION: \_\_\_\_\_

**SIGNATURE OF APPROVAL**

\_\_\_\_\_

ERP No: **P.02.00262~P.02.00270**  
CUSTOMER P/N:  
ITEM: **SCM1513FCTL-SERIES**

DATE:  
REVISION: **A**  
SPEC No: **SA-S999-021**

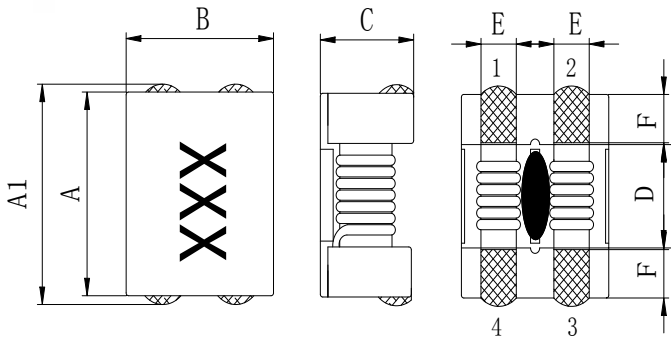
### REVISIONS

REV	DATE	DESCRIPTION	DRAWN	CHECKER
A		送样承认.	Li QunYing	Cheers Ma

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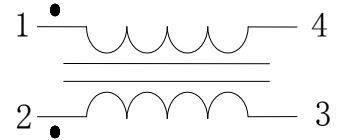
**EXTERNAL DIMENSIONS UNIT: mm**



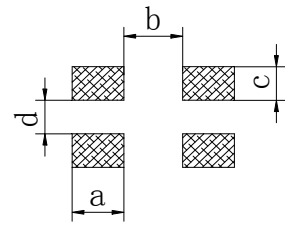
Marking: White "XXX".

A	A1	B	C	D	E	F
15.0±0.5	15.6±0.5	13.0±0.5	6.60Max	9.40Ref	2.60Ref	2.50Ref

**ELECTRICAL SCHEMATIC**



**PAD LAYOUT UNIT: mm**



a	b	c	d
3.6	8.8	3.1	3.3

**ELECTRICAL CHARACTERISTICS (@ 25°C)**

Part No.	Impedance (Ω)	Test Freq	DCR (mΩ)	Rated Current (A)	Rated Voltage (V)Dc	Insulation Resistance (MΩ)	MARKING	ERP NO
SCM1513FCTL-301	225 Min(300Typ)	100MHz	5.0 Max	13 Max	80 Max	10 Min	301	P.02.00263
SCM1513FCTL-501	400 Min(500Typ)	100MHz	6.0 Max	10 Max	80 Max	10 Min	501	P.02.00264
SCM1513FCTL-551	400 Min(550Typ)	100MHz	6.0 Max	10 Max	80 Max	10 Min	551	P.02.00266
SCM1513FCTL-601	500 Min(600Typ)	100MHz	7.0 Max	10 Max	80 Max	10 Min	601	P.02.00267
SCM1513FCTL-701	500 Min(700Typ)	100MHz	7.0 Max	10 Max	80 Max	10 Min	701	P.02.00268
SCM1513FCTL-102	800 Min(1000Typ)	100MHz	10 Max	9.0 Max	80 Max	10 Min	102	P.02.00269
SCM1513FCTL-152	1200 Min(1500Typ)	100MHz	23 Max	5.0 Max	80 Max	10 Min	152	P.02.00270

Rated Current: ΔT≦40°C Typ

**NOTE:**

Operating temperature: -40°C~+125°C

Storage temperature: -40°C~+125°C

Storage environment: temperature: 0°C~+40°C humidity: RH10%~70%

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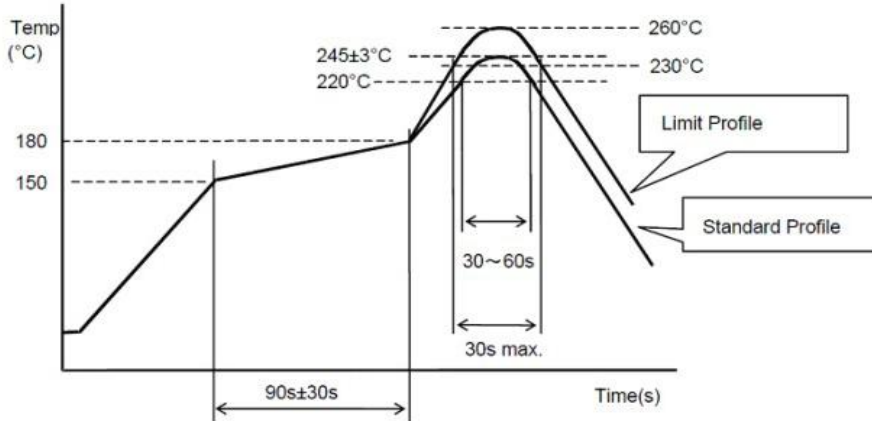
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## Material List

No.	Material	Specification
a	Core	Ferrite core
b	Wire	G1P180
c	Cover	LCP
d	Clip	C1100 P2
e	Adhesive	Epoxy resin
f	Terminal	Sn /Cu
g	Ink	White

## Recommended Soldering Temperature Graph



	Standard Profile	Limit Profile
Pre-heating	150~180°C、90s±30s	
Heating	above 220°C、30s-60s	above 230°C、30s max
Peak temperature	245°C±3°C	260°C、10s
Cycle of reflow	2 times	2 times

## Product photos



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**TEST DATA FOR PREPRODUCTION SAMPLES(SCM1513FCTL-701)**

MEAS. Item	Impedance ( $\Omega$ )	DCR (m $\Omega$ )		A (mm)	A1 (mm)	B (mm)	C (mm)		
Spec	500 Min(700Typ)	7.0 Max		15.0 $\pm$ 0.5	15.6 $\pm$ 0.5	13.0 $\pm$ 0.5	6.60Max		
Test Freq.	100MHz								
1	572	4.43		15.0	15.9	13.1	6.32		
2	586	4.45		15.1	15.9	13.1	6.39		
3	589	4.61		15.0	15.8	13.1	6.36		
4	587	4.53		15.0	15.8	13.1	6.30		
5	590	4.51		15.0	15.7	13.2	6.30		
6	592	4.58		14.9	15.8	13.2	6.32		
7	599	4.54		15.0	15.7	13.1	6.27		
8	574	4.58		15.0	15.8	13.1	6.25		
9	594	4.60		15.0	15.8	13.1	6.43		
10	578	4.58		15.1	15.9	13.2	6.32		
X	586	4.54		15.0	15.8	13.1	6.33		
R	27.0	0.18		0.17	0.21	0.14	0.18		

**TEST INSTRUMENT:**

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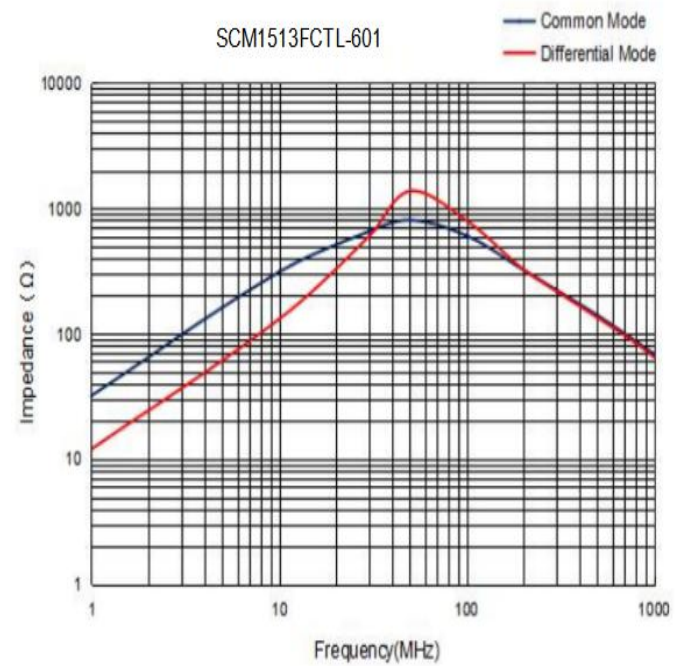
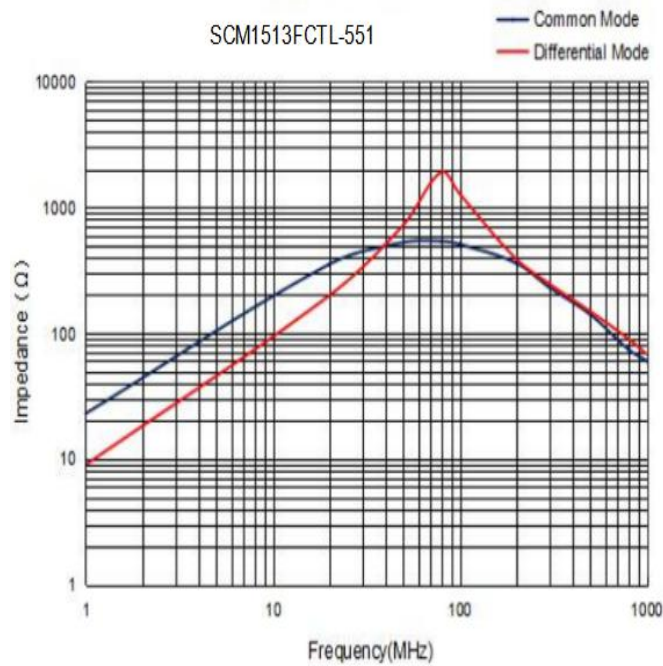
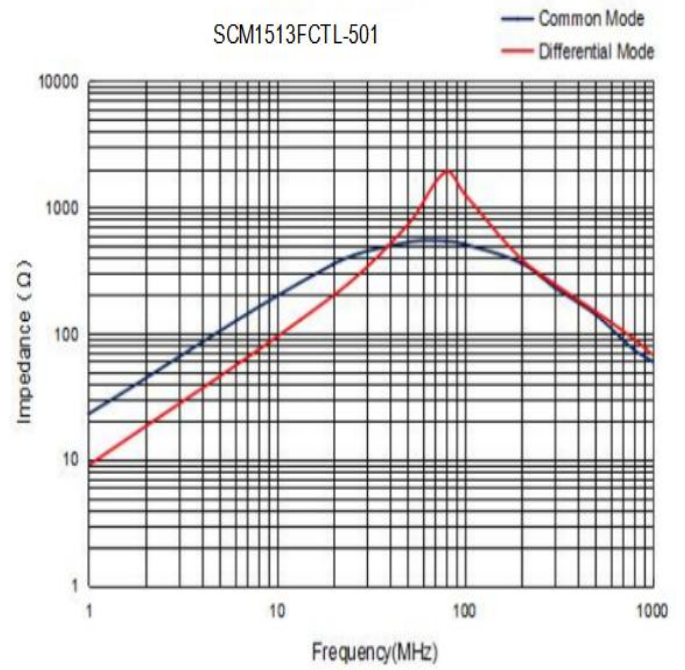
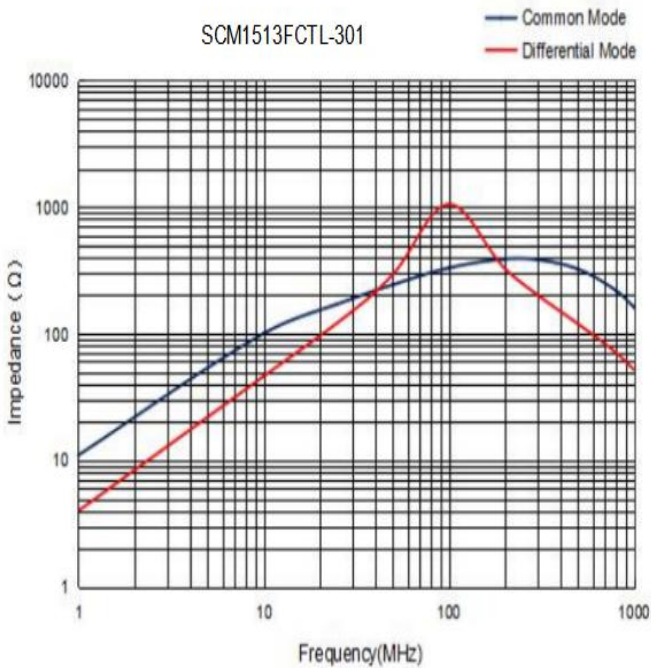
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**Curve**



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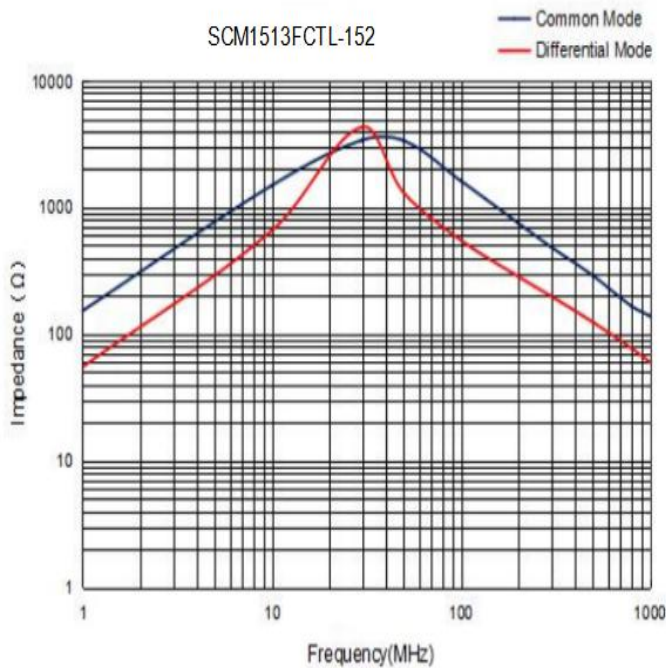
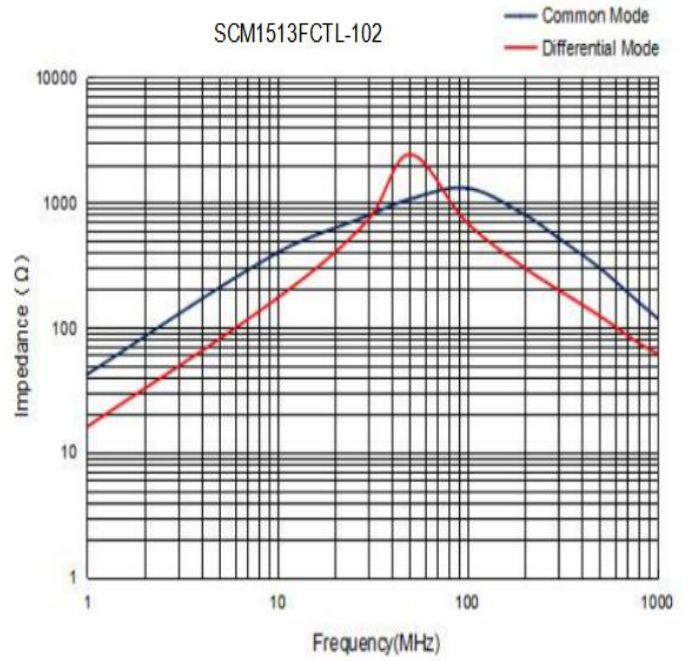
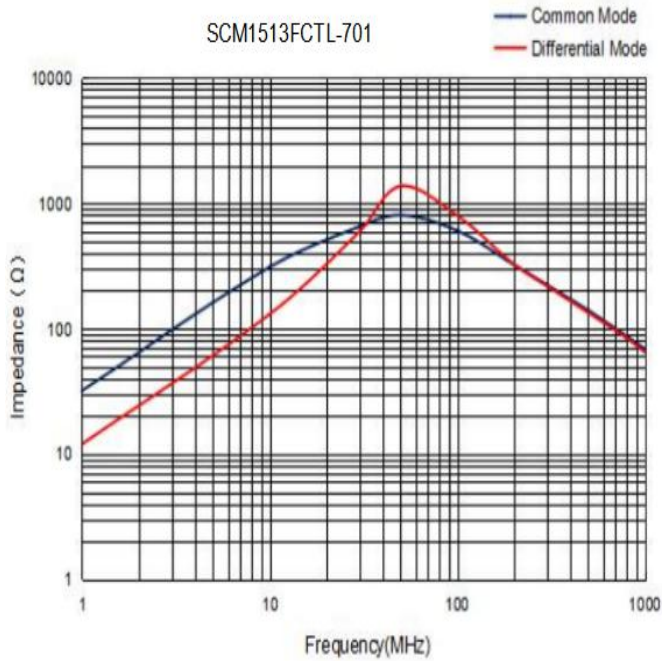
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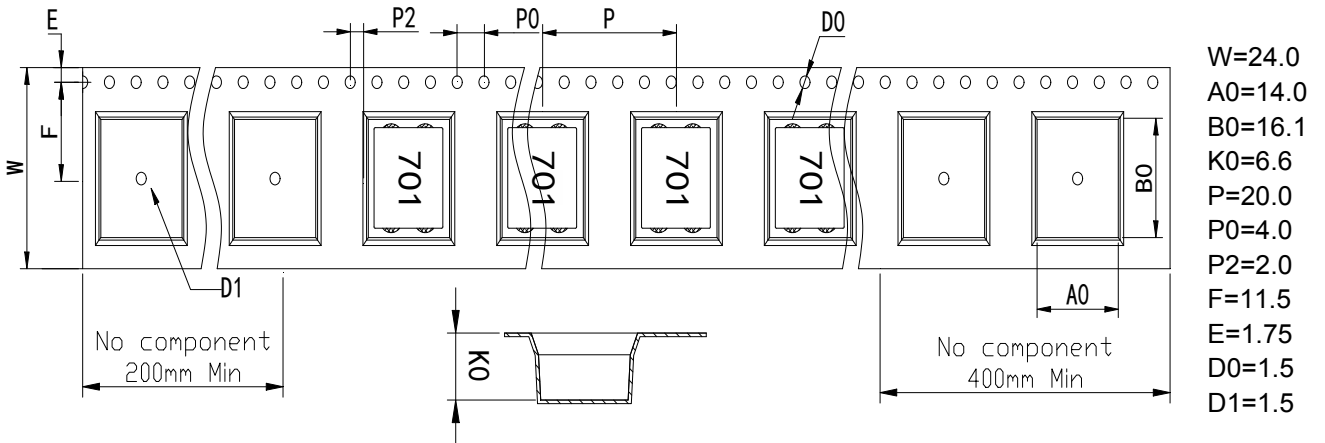
### Curve



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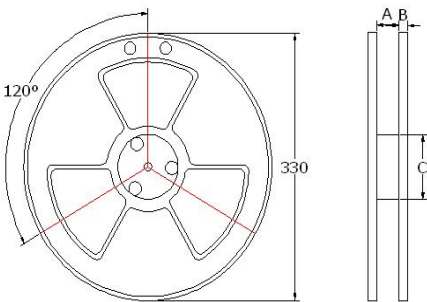
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**Packing**  
**Carrier Tape (Unit:mm)**



透明载带+透明上带.

**Reel (Unit:mm)**



A=24.5  
 B=2.3  
 C=100

**QTY**

Reel(Pcs) 350  
 Middle Carton(Pcs) 350  
 Big Carton(Pcs) 1,750  
 N.W(Kg)  
 G.W(Kg)  
 产品单重约(g)

350PCS/Reel

1Reel/Bag

1Bags/Small Box

5Small Boxes/Outer Box

