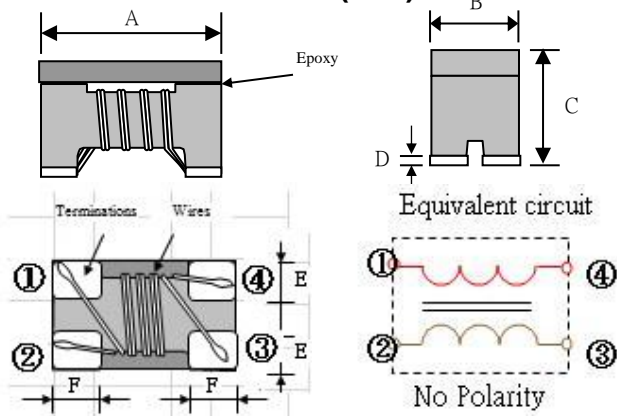


ITEM P/N	CM2520A-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

## PACKING DIMENSIONS (mm)



CM2520A	Dimensions
A	2.5 ± 0.2
B	2.0 ± 0.2
C	1.8 ± 0.2
D	0.2 ± 0.1
E	0.40 ± 0.1
F	0.45 ± 0.1

## EXPLANATION OF PART NUMBERS

1	2	3	4	5	6	7	8	9	10	11	
<b>C</b>	<b>M</b>	<b>2</b>	<b>5</b>	<b>2</b>	<b>0</b>	<b>A</b>	<b>-</b>	<b>3</b>	<b>0</b>	<b>1</b>	<b>S</b>
(1)	(2)					(3)		(4)			(5)

- (1) Product name
- (2) Shapes and dimensions
- (3) Shielding Type for 1.0 GHz
- (4) Impedance 【 at 100MHz 】  
301:300Ω
- (5) Tolerance  
S=±25% ; M=±20%

## ELECTRICAL CHARACTERISTICS

P/N	Z(Ω)	DCR (Ω)	Idc(mA)	Rated Voltage	Insulation Resistance	Withstanding Voltage
	Common Mode					
	Impedance at 100MHz	[ Max ]	[ Max ]	Vdc (V)Typical	IR (MΩ)Min.	Vdc (V)Typical
CM2520A-301□	225min. (300Typ)	0.35	400	20	10	125
CM2520A-601□	450min. (600Typ)	0.45	300	20	10	125
CM2520A-102□	750min. (1000Typ)	0.90	200	20	10	125

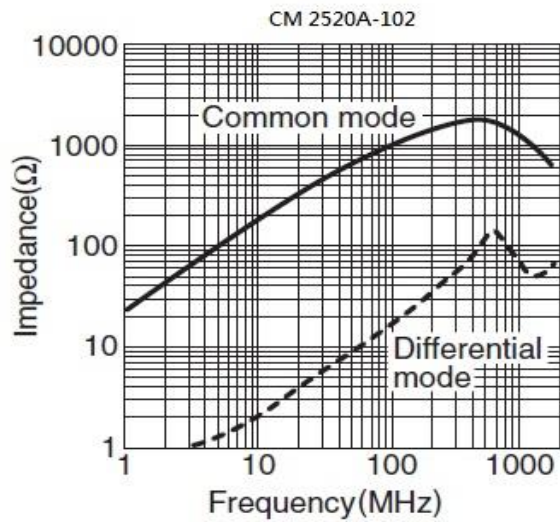
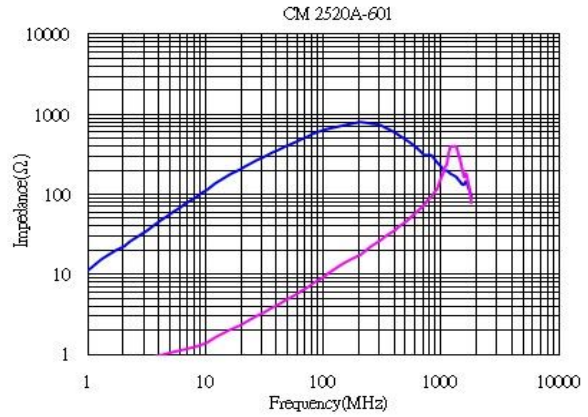
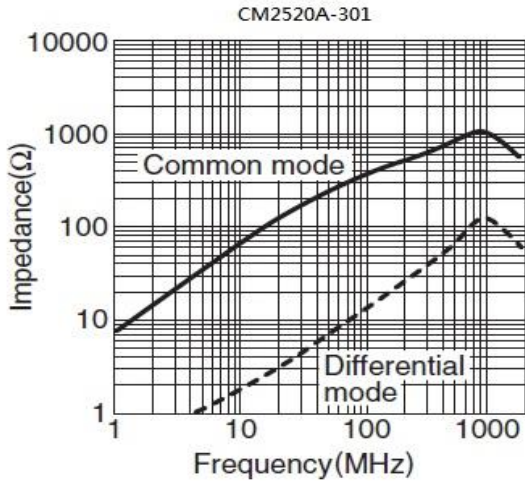
Operating temperature : -25 to +85°C

Storage temp. and humidity : -40 to +85°C ,70%RH max

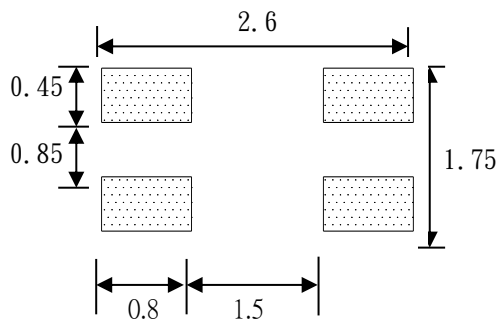
If Use Wave soldering is there will be some risk. Re-flow soldering temperatures below 240 degrees, there will be unwitting risk

ITEM P/N	CM2520A-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

## PERFORMANCE CURVES



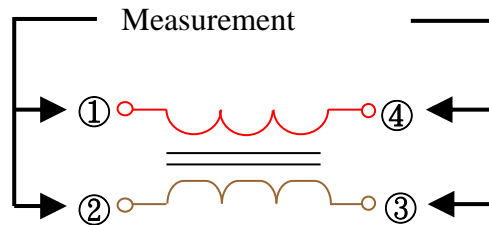
**Recommended Soldering Conditions (Please use this product by reflow soldering)**  
**Recommended Footprint(mm)**



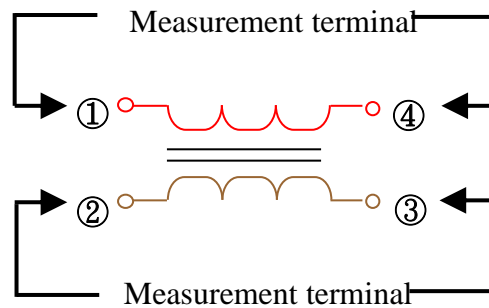
ITEM P/N	CM2520A-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

**Test Equipment****Impedance**

Measured by using Agilent 4291B RF Impedance Analyzer.

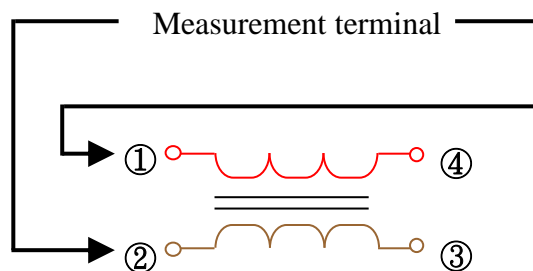
**DC Resistance**

Measured by using Agilent4338B mill ohm meter.

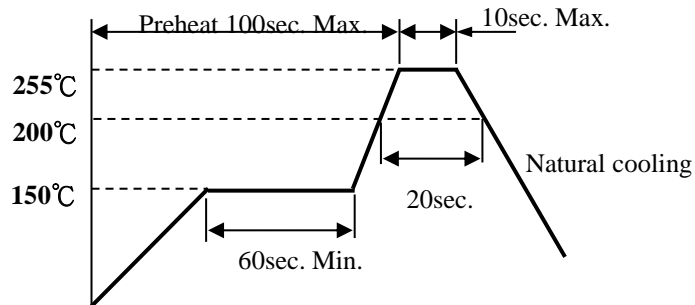
**Insulation Resistance**

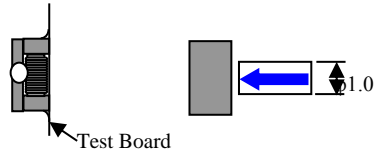
Measured by using Chroma 19073

Measurement voltage : 50v ,Measurement time : 60 sec.



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PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

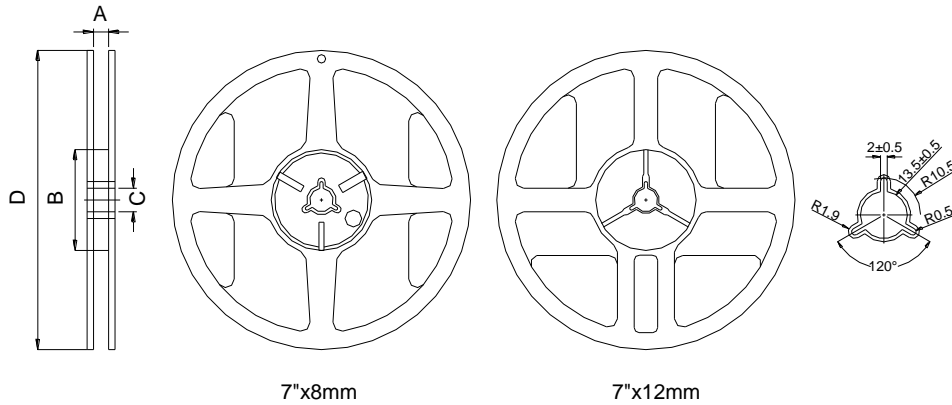
**RECOMMENDED SOLDERING TEMP. GRAPH****MECHANICAL RELIABILITY**

TEST	Specification & Requirement		Method Used
Solderability	The surface of terminal/pin tested shall be covered with new solder by 90%		Solder heat proof: Preheating: 150 ±10°C 60 seconds Soldering: 245 ±5°C for 4 ±1 sec
Solder Heat Resistance	Components should have not evidence of electrical and mechanical damage Impedance: within ±15% of initial value		Preheating: 150°C 60secs Solder temperature: 260±5°C Flux: rosin Dip time: 10±0.5 secs
Terminal strength	Series No.	F (Kg)	Solder a chip to test substrate and then laterally apply a force in the arrow direction 
	CM1608A/C	0.5	
	CM2012A/B/C	0.5	
	CM2520A	0.5	
	CM3216A	1.0	

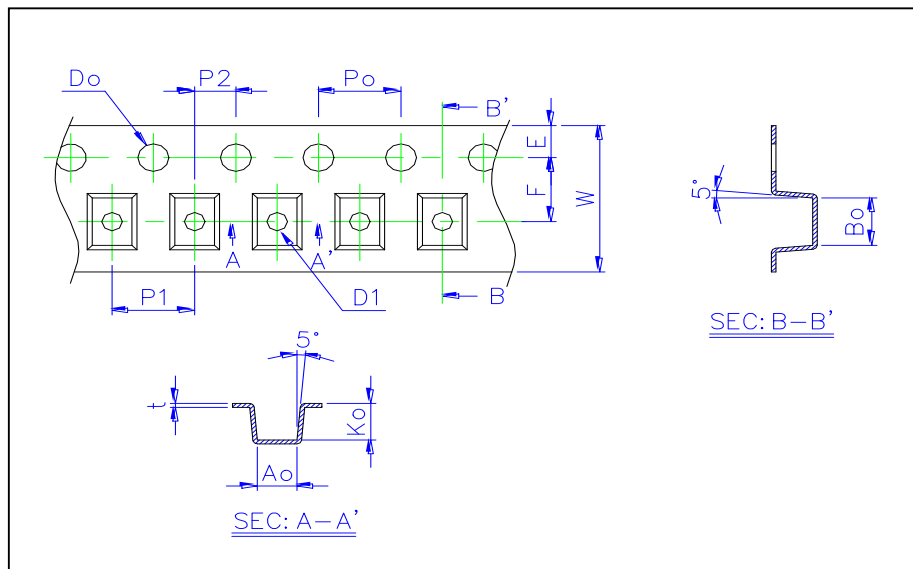
**ENDURANCE RELIABILITY**

TEST	Specification & Requirement	Method Used
Thermal Shock	Impedance change within ± 15% Without mechanical damage	-65°C, (30 mins) -> room temp. (2 mins) -> 125°C, (30 mins) -> room temp. (2 mins) 50 cycles
Humidity Resistance	Impedance change within ± 15% Without mechanical damage	Apply IDC current @ 60°C ambient Humidity: 90% Duration: 168 hrs
Low Temp. Storing	Impedance change within ± 15% Without mechanical damage	Storing Temp. -40 ±2 °C for total 168 +5/-0 hours
High Temp. Storing	Impedance change within ± 15% Without mechanical damage	Storing Temp. 125 ±2 °C for total 168 +5/-0 hours

ITEM P/N	CM2520A-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

**Reel Dimension & Tape Dimension**

Type	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	9.0±0.5	60±2	13.5±0.5	178±2
7"x12mm	13.5±0.5	60±2	13.5±0.5	178±2



Size	Ao(mm)	Bo(mm)	Ko(mm)	W(mm)	E(mm)	F(mm)	Po(mm)	P1(mm)	Do(mm)
1608	1.00±0.10	1.65±0.10	1.18±0.10	8.00±0.20	1.75±0.10	3.50±0.05	4.0±0.05	4.0±0.10	none
2012	1.50±0.10	2.35±0.10	1.45±0.10	8.00±0.20	1.75±0.10	3.50±0.05	4.0±0.05	4.0±0.10	1.0±0.1
2520	2.20±0.15	2.75±0.10	2.00±0.10	8.00±0.20	1.75±0.10	3.50±0.05	4.0±0.05	4.0±0.10	1.0±0.1
3216	1.88±0.10	3.50±0.10	2.10±0.10	8.00±0.20	1.75±0.10	3.50±0.05	4.0±0.05	4.0±0.10	1.0±0.1

**Packaging Quantity**

Chip Size	1608	2012	2520	3216
8mm/ Reel	2000	2000	2000	2000