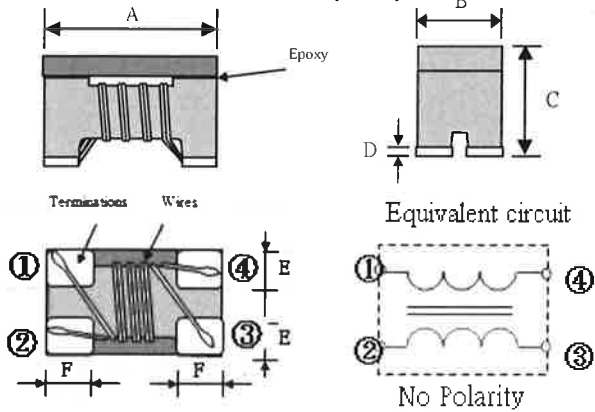


SPECIFICATION

RoHS
COMPLIANT

ITEM P/N	CM1608A-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

PACKING DIMENSIONS (mm)



CM1608A	Dimensions
A	1.6 ± 0.1
B	0.8 ± 0.1
C	1.1 ± 0.1
D	0.1 ± 0.1
E	0.25 Typ
F	0.33 Typ

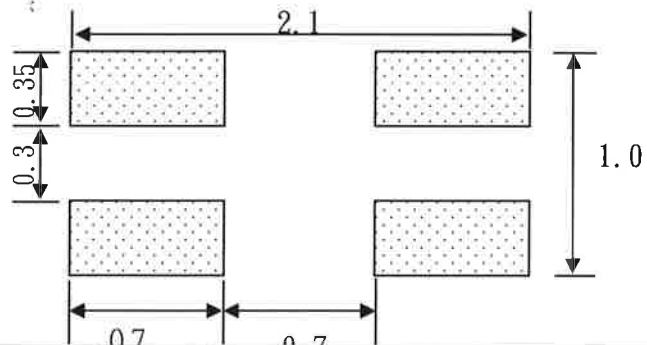
EXPLANATION OF PART NUMBERS

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

- (1) Product name
- (2) Shapes and dimensions
- (3) Shielding Type for 1.0 GHz
- (4) Impedance 【 at 100MHz 】
900:90Ω
- (5) Tolerance
S = ±25% ; M = ±20%

Recommended Soldering Conditions

Recommended Footprint(mm)



ELECTRICAL CHARACTERISTICS

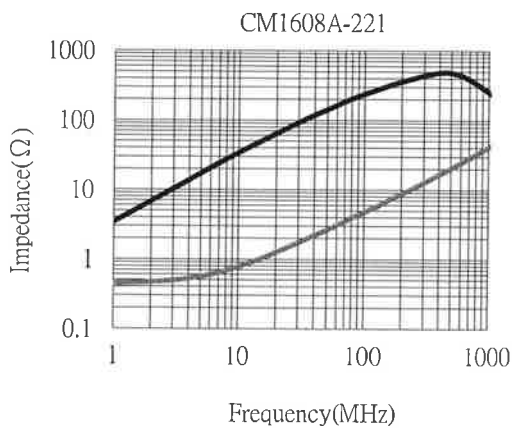
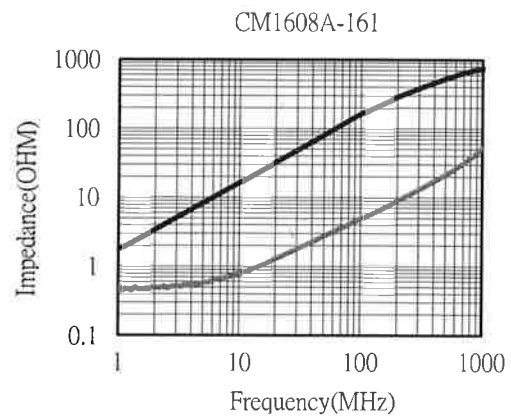
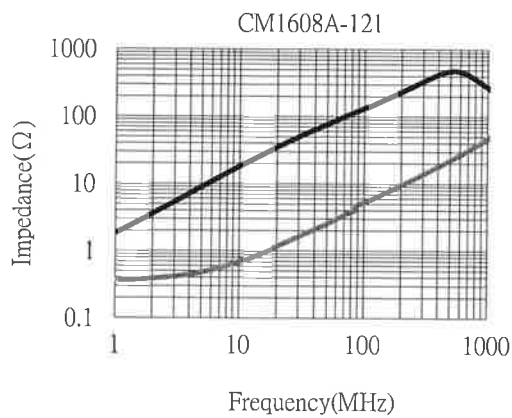
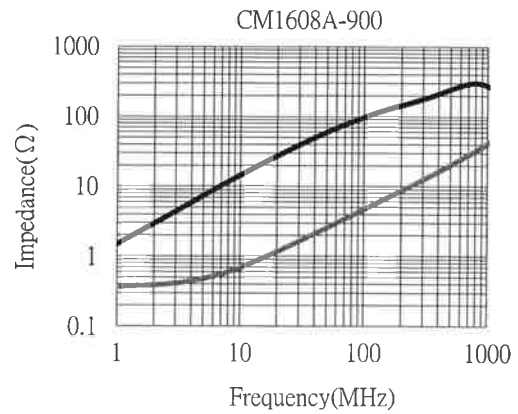
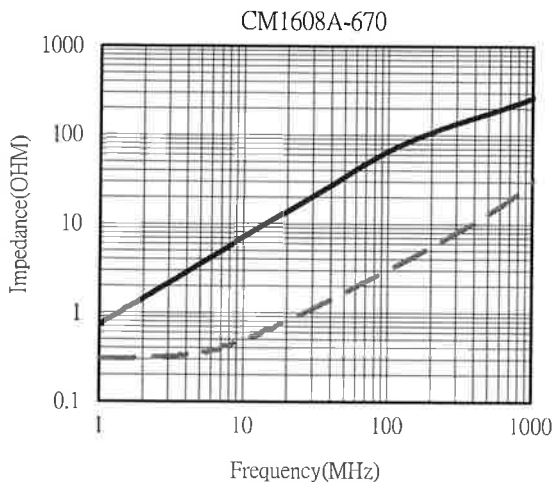
P/N	Z(Ω)	DCR (Ω)	Idc(mA)	Rated Voltage	Insulation Resistance	Withstanding Voltage
	Common Mode					
	Impedance at 100MHz	[Max]	[Max]	Vdc (V)Typical	IR (MΩ)Min.	Vdc (V)Typical
CM1608A-670□	67	0.30	300	50	10	125
CM1608A-900□	90	0.30	300	50	10	125
CM1608A-121□	120	0.36	250	50	10	125
CM1608A-161□	160	0.40	200	50	10	125
CM1608A-221□	220	0.42	200	50	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

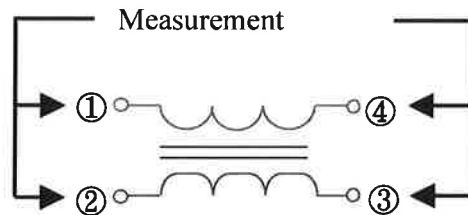
ITEM P/N	CM1608A-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

PERFORMANCE CURVES

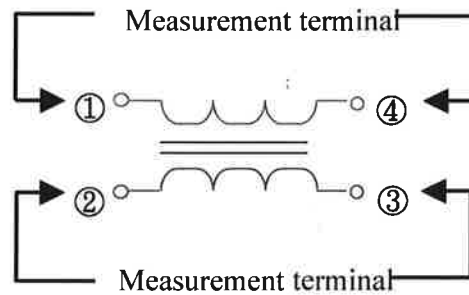
ITEM P/N	CM1608A-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

Test Equipment**Impedance**

Measured by using Agilent 4291B RF Impedance Analyzer.

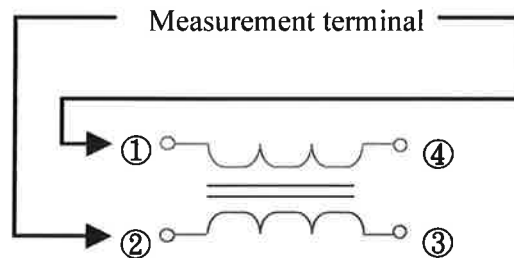
**DC Resistance**

Measured by using Agilent4338B mill ohm meter.

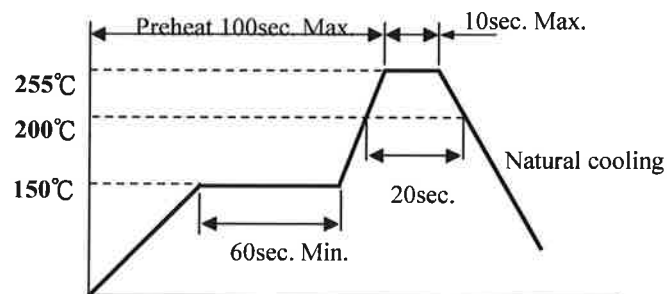
**Insulation Resistance**

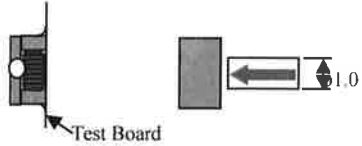
Measured by using Chroma 19073

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



ITEM P/N	CM1608A-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

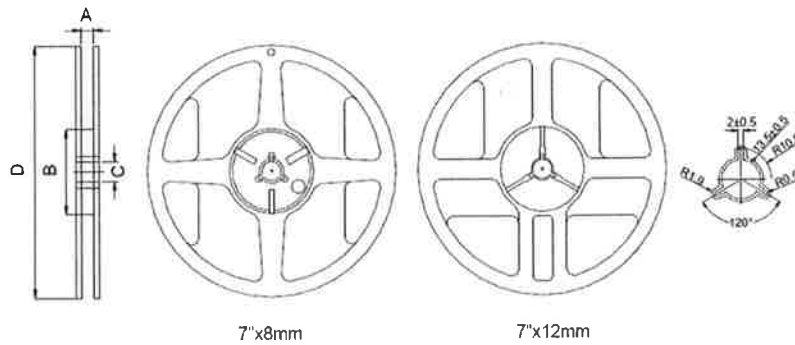
RECOMMENDED SOLDERING TEMP. GRAPH**MECHANICAL RELIABILITY**

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)
	CM1608A/C	0.5
	CM2012A/B/C	0.5
	CM3216A	1.0
		Solder a chip to test substrate and then laterally apply a force in the arrow direction 

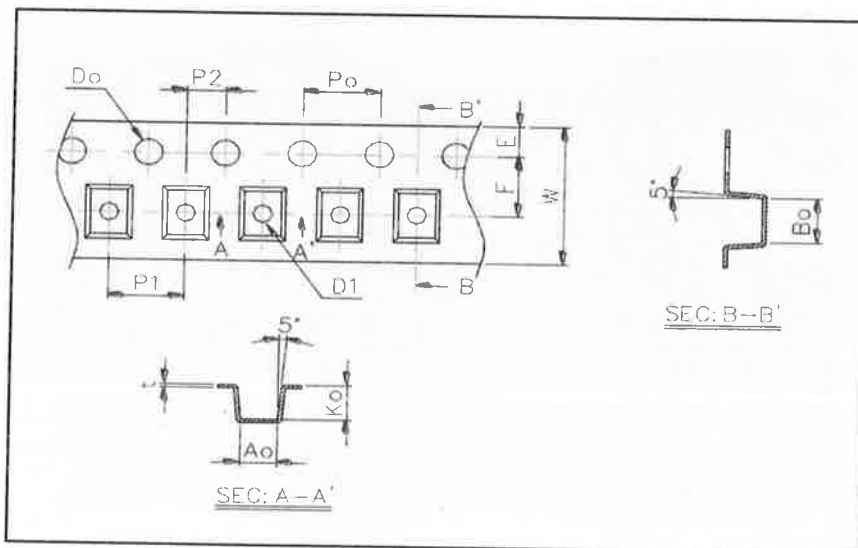
ENDURANCE RELIABILITY

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	CM1608A-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
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	3216
8mm/ Reel	2000	2000	2000