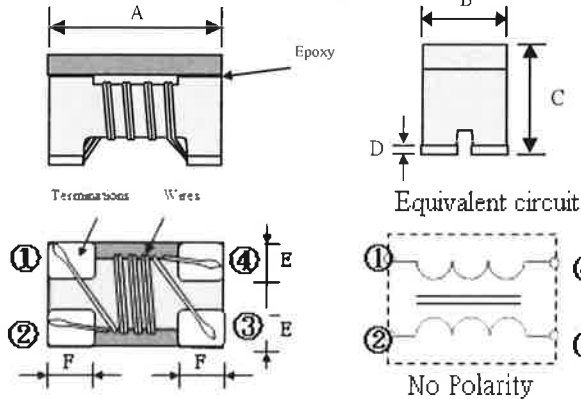


# SPECIFICATION

RoHS  
COMPLIANT

ITEM P/N	CM0806D-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

## PACKING DIMENSIONS (mm)



CM0806	Dimensions
A	0.85 ± 0.1
B	0.65 ± 0.1
C	0.45 max.
D	0.15 max.
E	0.27Typ.
F	0.22Typ.

## EXPLANATION OF PART NUMBERS

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

- (1) Product name  
 (2) Shapes and dimensions  
 (3) Shielding Type

D	USB3.0 / 7.5G
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- (4) Impedance 【 at 100MHz 】  
 350:35Ω  
 (5) Tolerance  
 S=±25% ; M=±20%

## ELECTRICAL CHARACTERISTICS

P/N	Z(Ω)	DCR (Ω)	Idc(mA)	Rated Voltage	Insulation Resistance	Cut-off Frequency	Characteristic Resistance
	Common Mode						
	Impedance at 100MHz						
CM0806D-350□	35	[ Max ]	[ Max ]	Vdc (V)Typical	IR (MΩ)Min.	(GHz)	(Ω)
CM0806D-650□	65	0.55	100	10	10	7.5 typ.	—
CM0806D-900□	90	0.80	100	10	10	7.5 typ.	—
		1.00	100	10	10	7.5 typ.	—

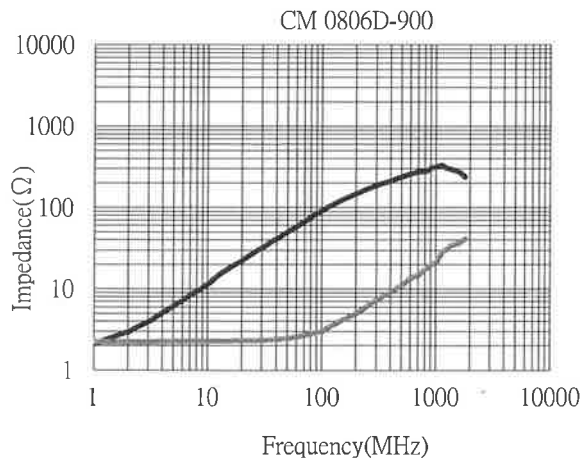
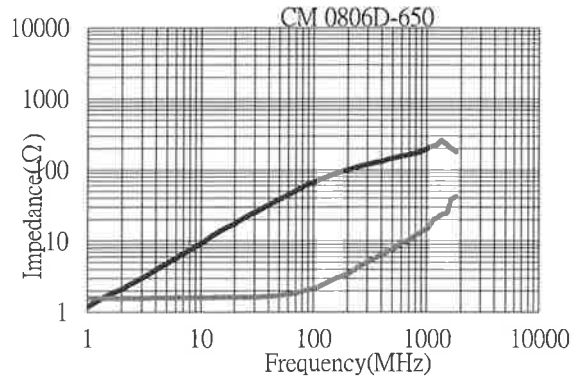
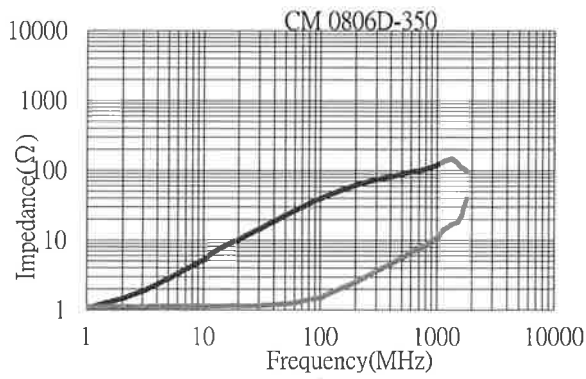
Operating temperature : -25 to +85°C

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

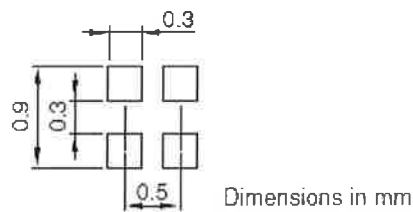
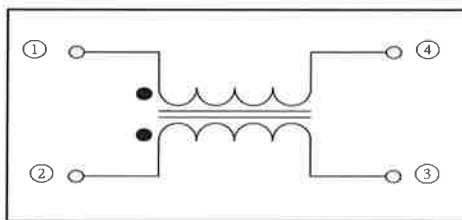
If Use Wave soldering is there will be some risk. Re-flow soldering temperatures below 240 degrees, there will be unwitting risk

<b>ITEM P/N</b>	<b>CM0806D-SERIES</b>	<b>TEST INSTRUMENT</b>	<b>Agilent4291B / Agilent4338B</b>
<b>PRODUCT</b>	<b>COMMON MODE CHOKE</b>	<b>TEST FREQUENCY</b>	<b>100 MHz / 0.5V</b>

## PERFORMANCE CURVES



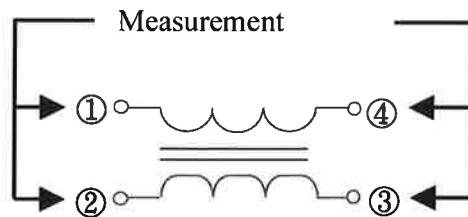
## Equivalent Circuit & Recommended Footprint



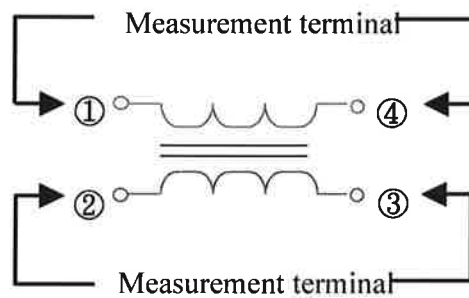
ITEM P/N	CM0806D-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

**Test Equipment****Impedance**

Measured by using Agilent 4291B RF Impedance Analyzer.

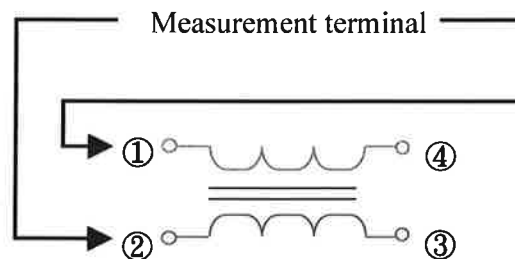
**DC Resistance**

Measured by using Agilent4338B mill ohm meter.

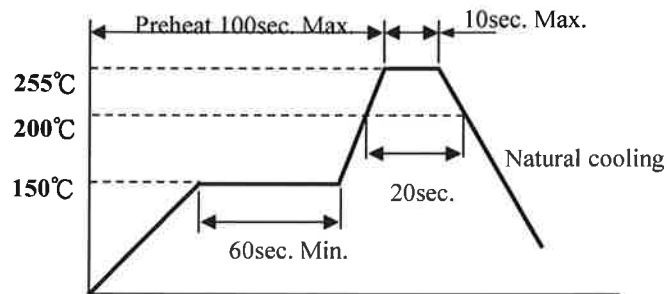
**Insulation Resistance**

Measured by using Chroma 19073

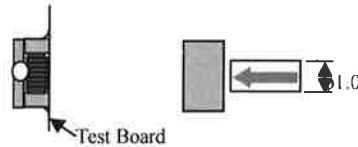
Measurement voltage : 50v , Measurement time : 60 sec.



ITEM P/N	CM0806D-SERIES	TEST INSTRUMENT	Agilent4291B / Agilent4338B
PRODUCT	COMMON MODE CHOKE	TEST FREQUENCY	100 MHz / 0.5V

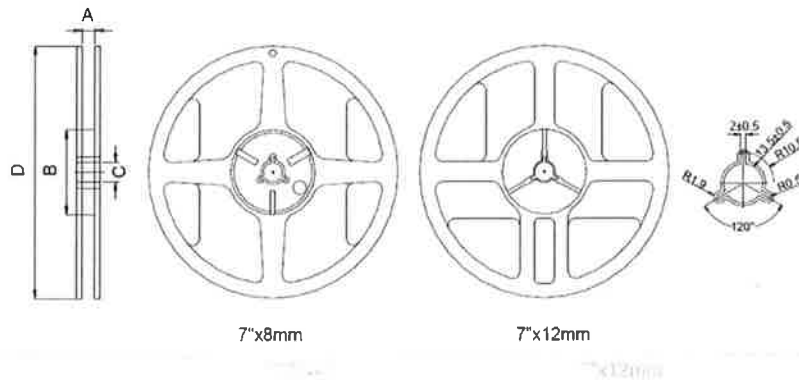
**RECOMMENDED SOLDERING TEMP. GRAPH****MECHANICAL RELIABILITY**

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)
	CM0806A/D	0.1
	CM1210A/D	0.2
	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

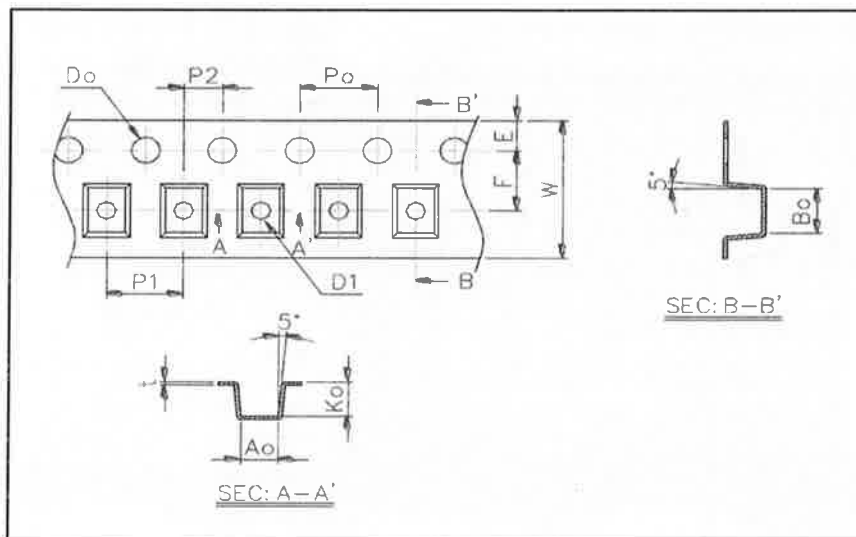
**ENDURANCE RELIABILITY**

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	CM0806D-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)
0806	1.05±0.10	0.95±0.10	0.50±0.10	8.00±0.20	1.75±0.10	3.50±0.05	4.0±0.05	4.0±0.10	1.5+0.1,-0
1210	1.40±0.10	1.15±0.10	0.93±0.10	8.00±0.20	1.75±0.10	3.50±0.05	4.0±0.05	4.0±0.10	1.5+0.1,-0
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	1.5+0.1,-0
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	1.5+0.1,-0
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	1.5+0.1,-0

**Packaging Quantity**

Chip Size	0806	1210	1608	2012	3216
8mm/ Reel	4000	3000	2000	2000	2000