

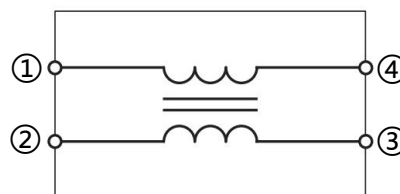
Desicription

- ◆ The common mode filter is mainly used to reduce radiation and high frequency common mode noise.
- ◆ Reduce asymmetric interference on data lines and other interfaces.
- ◆ Impedance characteristics match the impedance of most differential interface Settings, controlling unnecessary reflection formation
- ◆ Low leakage, no effect on differential mode current



Features

- ◆ Size:2.0mm*1.2mm*1.2mm
- ◆ Halogen free ,Lead free ,Reach and RoHs



Circuit Diagram

Application

- ◆ Cellular phones
- ◆ Portable devices
- ◆ Digital cameras
- ◆ Player
- ◆ Smart home
- ◆ Robot

PIN NUMBER	DESCRIPTION
① ~ ④	DATE LINE
② ~ ③	DATE LINE

Order information

Model	Marking	Package	shipping
CMF2012L025WAT		2012	2000/Tape&Reel

Part Numbering

CMF	2012	L025	W	A	T
A	B	C	D	E	F

A:ASIM common mode filter

B:Dimension

C:attenuation 25db

D:Wire wound

E:Shielding Type for 1.0 GHz

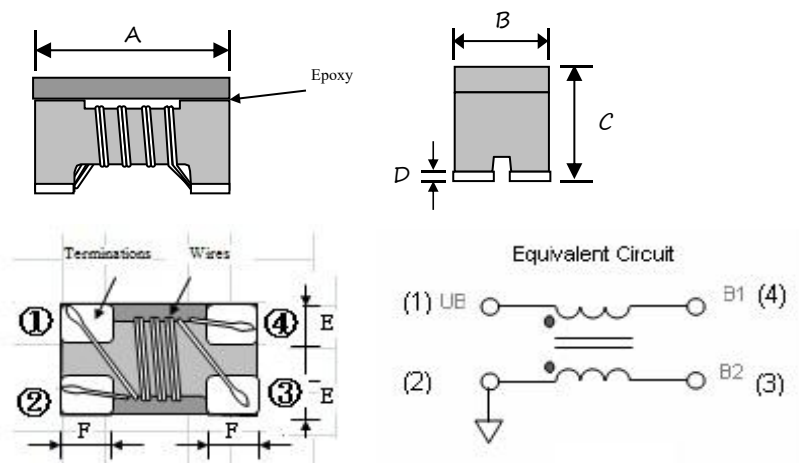
F:Tape

Specification

Part number	Freq. Range(MHz)	Port Impedance(Ω)	Insertion Loss(db)
CMF2012L025WAT	45~870	75~75	1.0 max
	CMRR (dB)	Withstand volt (Vdc)	Rated volt (Vdc)
	20.0 min	125	50
	DC Resistance (Ω) max	Rated Current (mA)	IR (Ω) min
	0.7	280	10M
	Operation junction temperature	Lead temperature	Storage temperature*
	-40°C~+85°C	260°C	-40°C~85°C

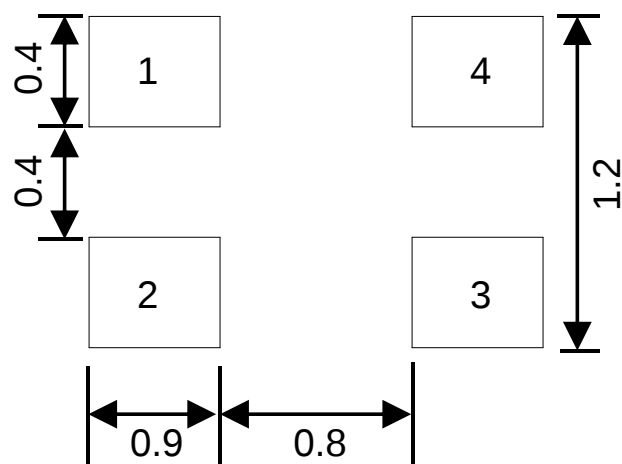
*The storage temperature is subject to the fixed substrate

PACKING DIMENSIONS (mm)



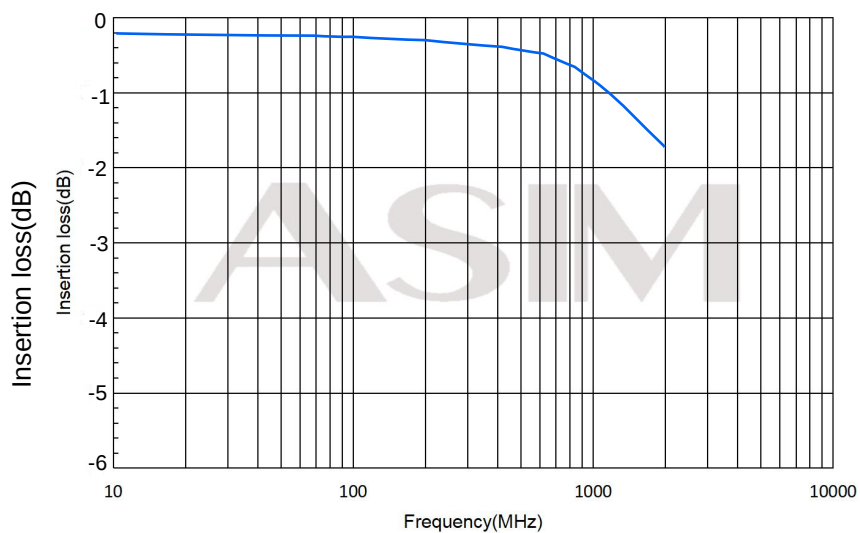
2012	Dimensions
A	2.0 ± 0.2
B	1.2 ± 0.2
C	1.2 ± 0.2
D	0.2 ± 0.1
E	0.40 Typ
F	0.45 Typ

Recommended Land Pattern (mm)

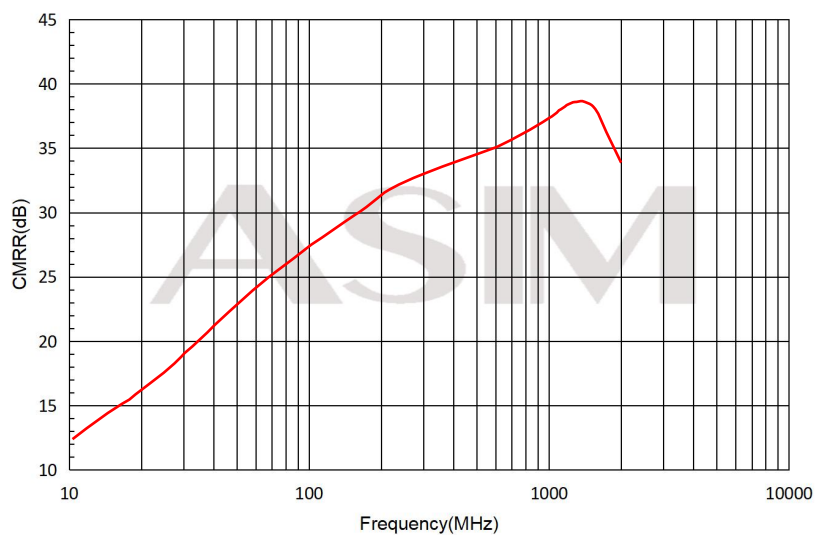


Recommended Reflow Profile

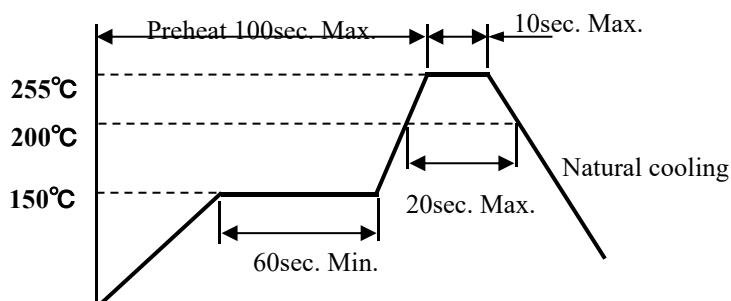
Insertion Loss Characteristics



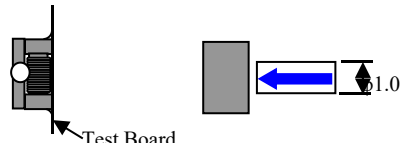
CMRR Characteristics



RECOMMENDED SOLDERING TEMP. GRAPH



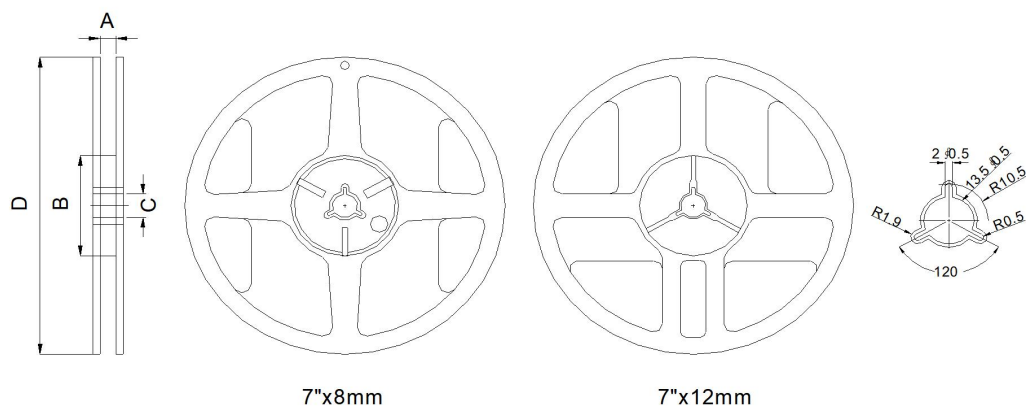
MECHANICAL RELIABILITY

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 
	BT2012A-750	0.5	

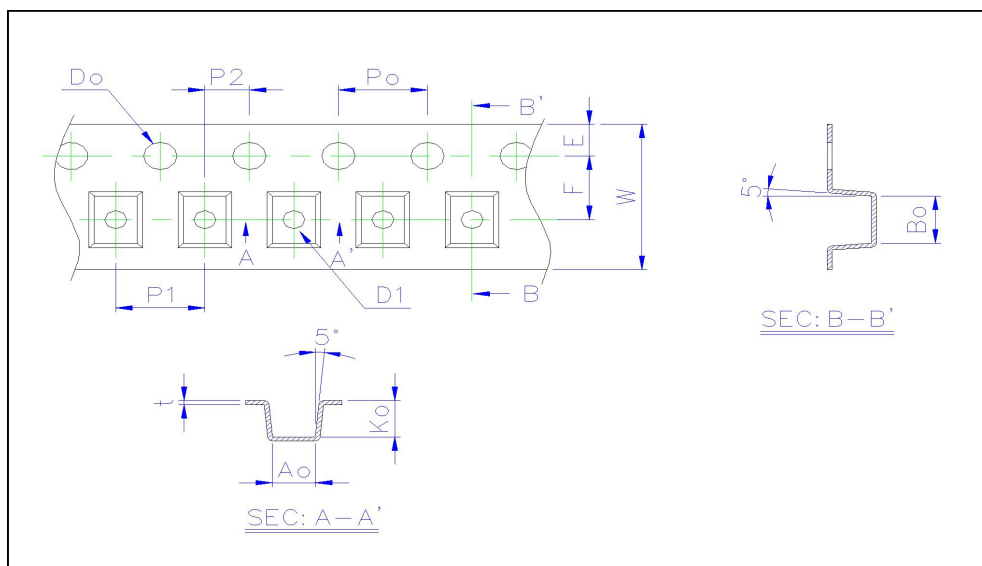
ENDURANCE RELIABILITY

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

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



Size	Ao(mm)	Bo(mm)	Ko(mm)	W(mm)	E(mm)	F(mm)	Po(mm)	P1(mm)	Do(mm)
2012	2.35±0.10	1.50±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