

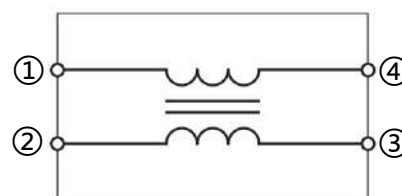
Desicription

- ◆ 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
- ◆ USB2.0/USB3.0/HDMI1.4



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	Package	shipping
CMF2012WD500MQT	2012	2000/Tape&Reel

Part Numbering

CMF	2012	W	D	500	M	Q	T
A	B	C	D	E	F	G	H

A:ASIM common mode filter

B:Dimension

C:Wire wound

D:Shielding type for USB3.0/ 7.5 GHz

E:Impedance 500=50Ω

F:Tolerance M±25%

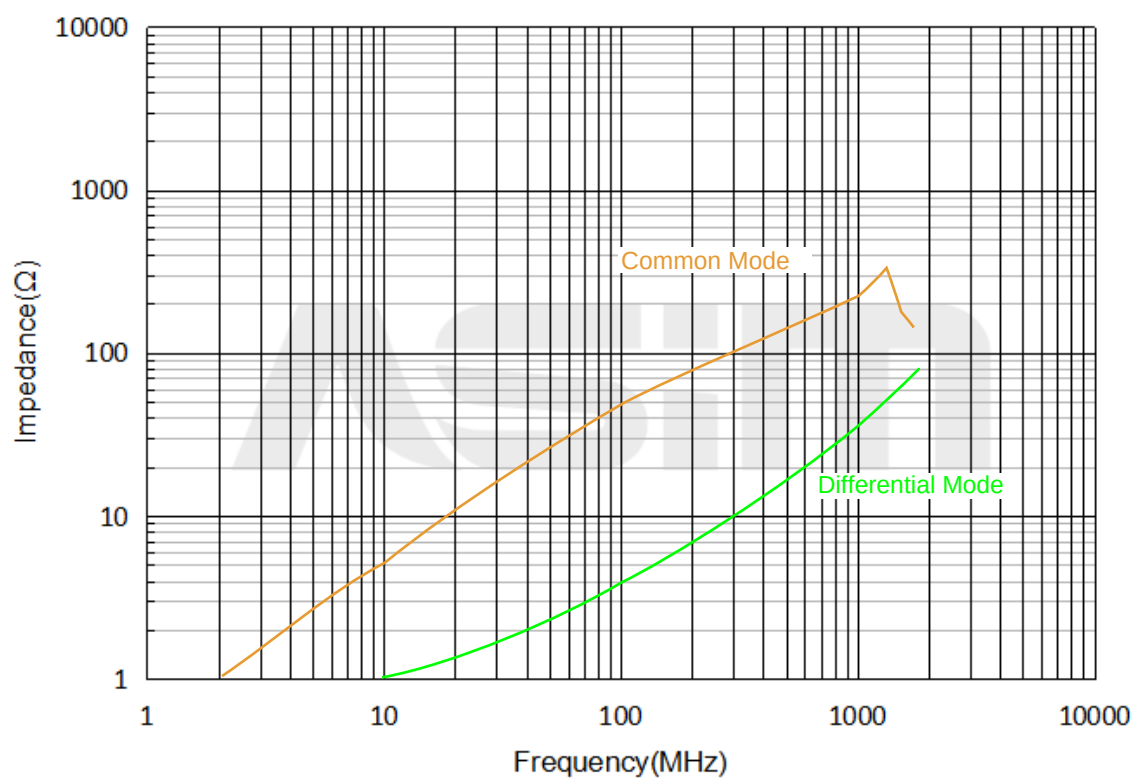
G:Internal series

H:Tape

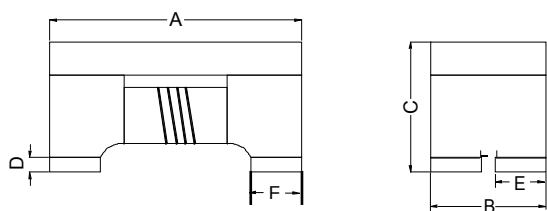
Specification

Part number	Common mode impedance(Ω) @100MHz	Rated Current (mA)	DC Resistance (Ω) max
CMF2012WD500MQT	50±25%	500.0	0.25
	Rated volt (Vdc)	Characteristic Resistance(Ω) typ	IR (MΩ) min
	100.0	100.0	10.0
	Operation junction temperature	Lead temperature	Storage temperature
	-40 to +105°C	260°C	Less than 40°C and 60% RH

Performance Curves

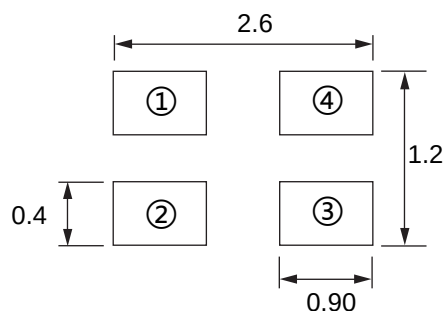


Dimension

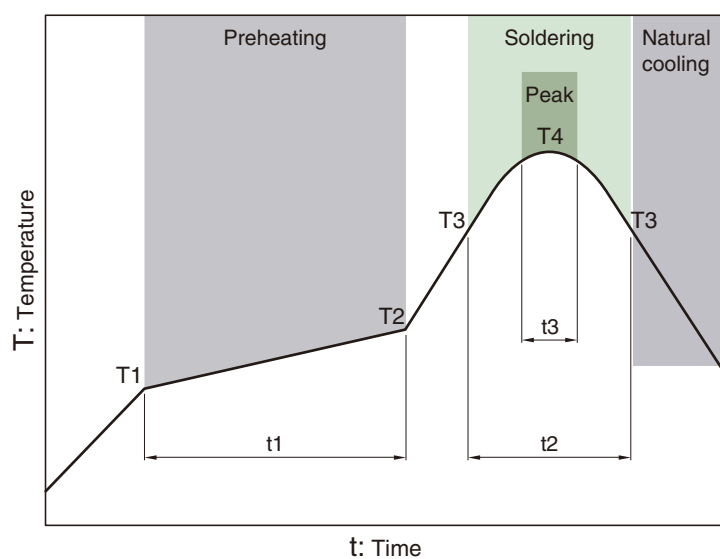


A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
2.0±0.2	1.2±0.2	1.2±0.2	0.20±0.1	0.46 Typ	0.55 Typ

Recommended Land Pattern (mm)

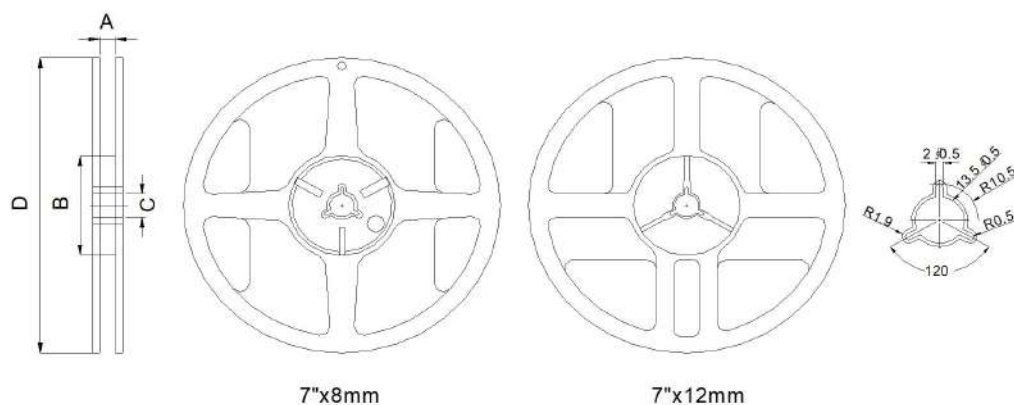


Recommended Reflow Profile

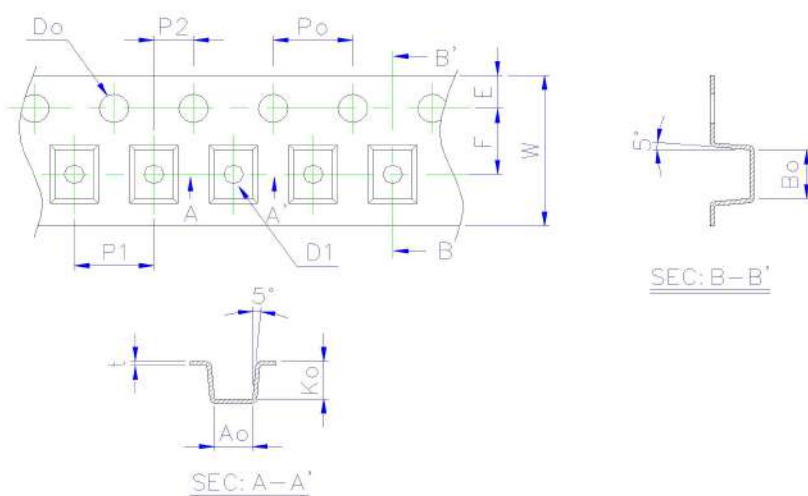


Preheating			Soldering		Peak	
Temp.	Time		Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3
150°C	200°C	60 to 180s	230°C	60 to 150s	260°C	10s Max

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	t(mm)	Ao(mm)	Bo(mm)	Ko(mm)	W(mm)	E(mm)	F(mm)	Po(mm)	P1(mm)	P2(mm)	Do(mm)
2012	0.23±0.05	1.35±0.10	2.25±0.10	1.37±0.10	8.00±0.20	1.75±0.10	3.50±0.05	4.00±0.05	4.00±0.10	2.00±0.05	1.50+0.1,-0