

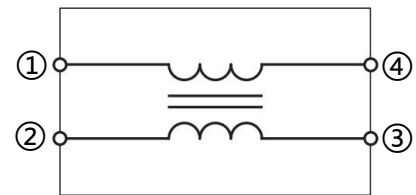
Desicription

- ◆ 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.
- ◆ AEC-Q200.



Features

- ◆ Size:2.0mm*1.2mm*1.2mm.
- ◆ Halogen free ,Lead free ,Reach and RoHs.
- ◆ Operating temperature : -40 to +125°C
- ◆ Storage temp. and humidity : -40 to +85°C ,70%RH max



Circuit Diagram

Application

- ◆ USB2.0
- ◆ LVDS
- ◆ MIPI

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

Order information

Model	Package	shipping
CMF2012WAC Series	2012	2000/Tape&Reel

Part Numbering

CMF	2012	W	A	C	900	M	Q	T
A	B	C	D	E	F	G	H	I

A:ASIM common mode filter

B:Dimension

C:Wire wound

D:Shielding type for 1.0GHz/USB2.0

E:Car level

F:Impedance

G:Tolerance $M \pm 25\%$

H:Internal series

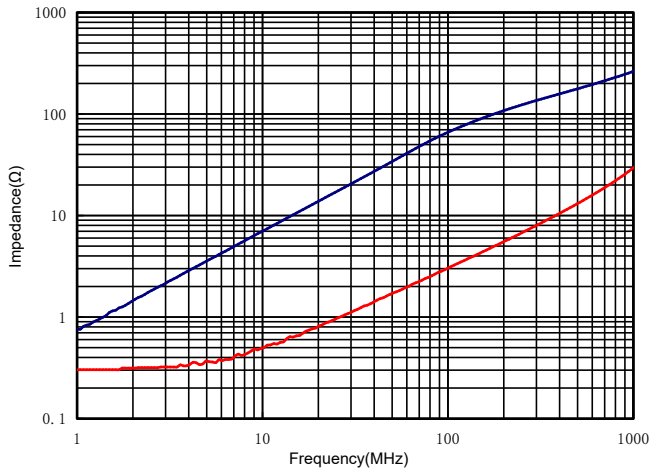
I:Tape

Specification

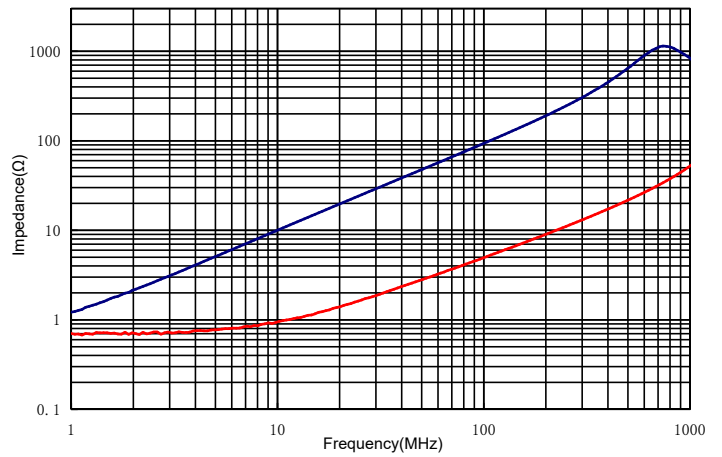
P/N	Z(Ω) Common mode Impedance @100MHz	DCR (Ω)	ID (mA)	Rated Voltage	Insulation Resistance	Withstand ing Voltage
		MAX	MAX	Vdc	IR	Vdc
				(V)Typical	(M Ω)Min	(V)Typical
CMF2012WAC670MQT	67	0.25	400	50	10	125
CMF2012WAC900MQT	90	0.30	400	50	10	125
CMF2012WAC121MQT	120	0.30	350	50	10	125
CMF2012WAC161MQT	160	0.30	350	50	10	125
CMF2012WAC181MQT	180	0.35	330	50	10	125
CMF2012WAC221MQT	220	0.35	330	50	10	125
CMF2012WAC261MQT	260	0.40	300	50	10	125
CMF2012WAC361MQT	360	0.40	280	50	10	125

Performance Curves

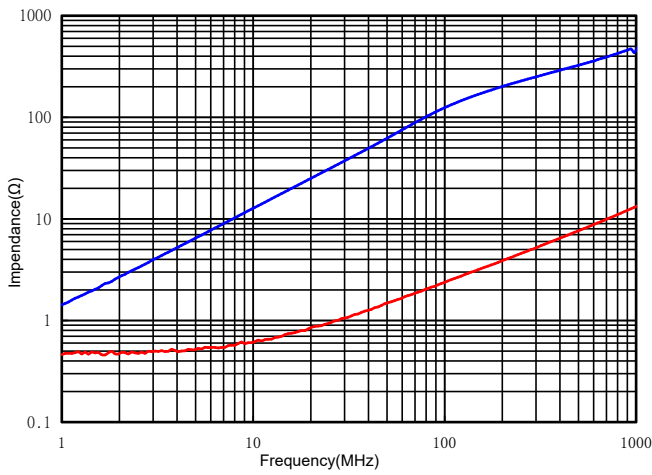
CMF2012WAC670MQT



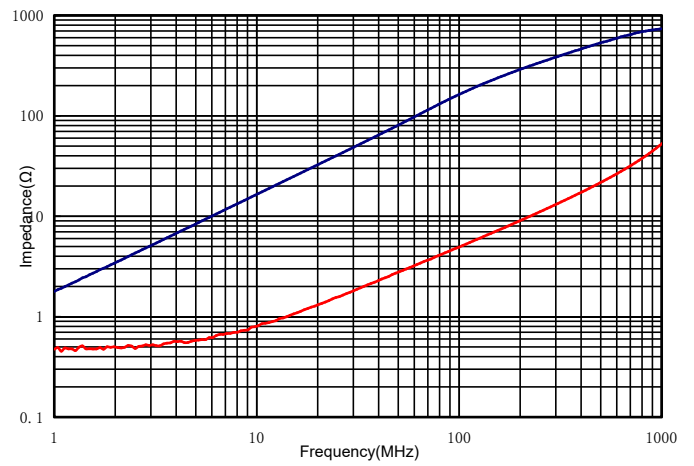
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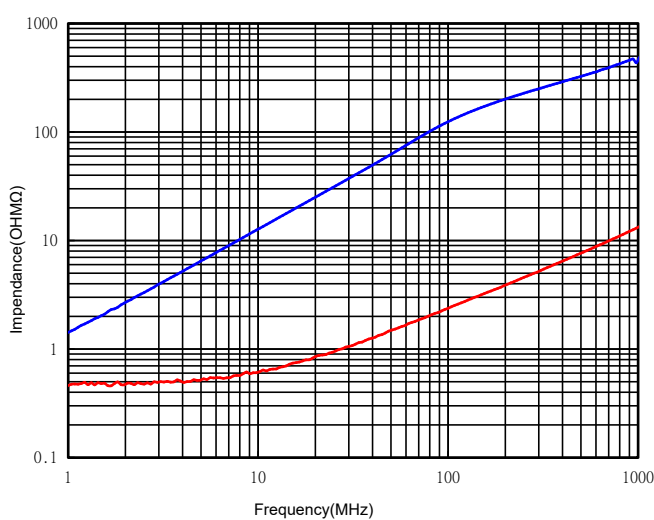
CMF2012WAC121MQT



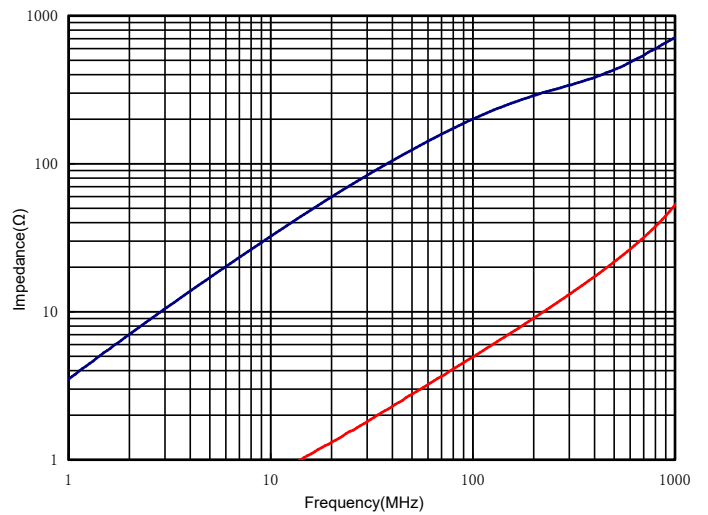
CMF2012WAC161MQT



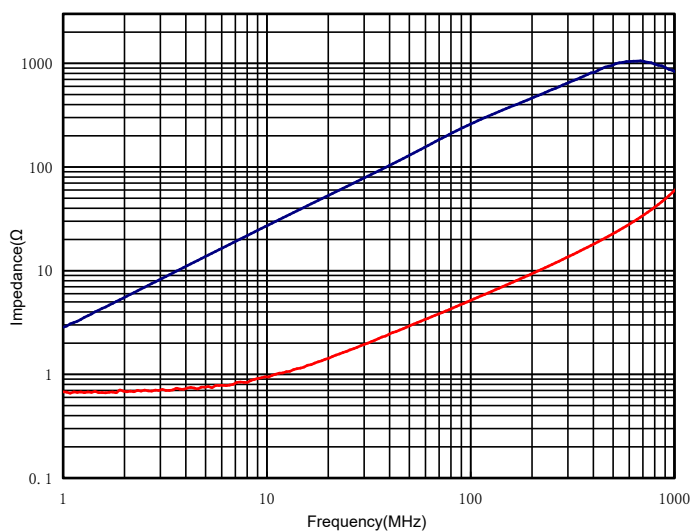
CMF2012WAC181MQT



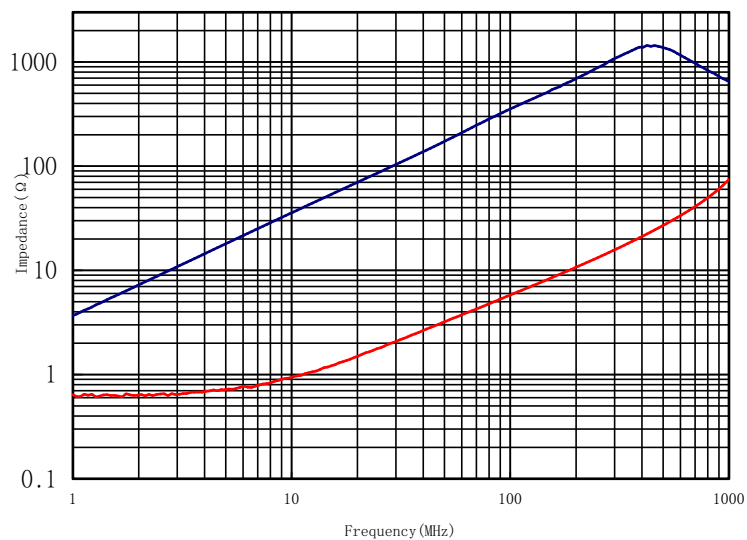
CMF2012WAC221MQT



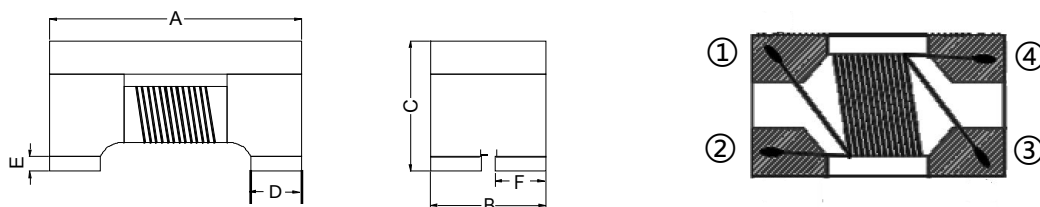
CMF2012WAC261MQT



CMF2012WAC361MQT

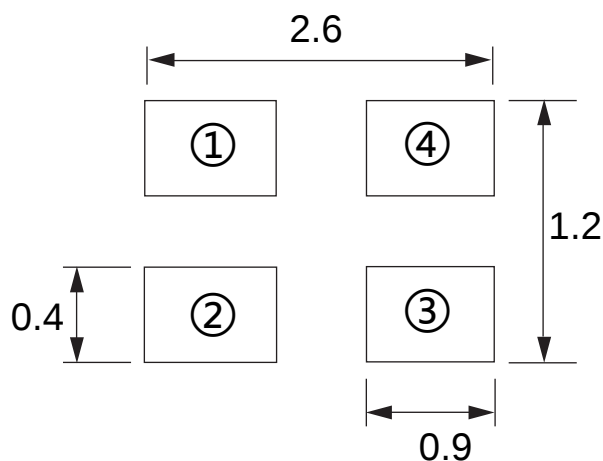


Dimension (mm)

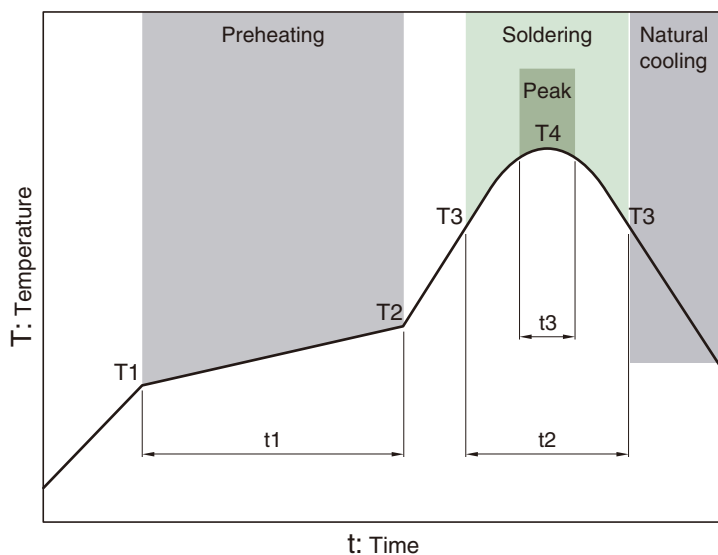


A(mm)	B(mm)	C(mm)	D(mm)	F(mm)	E(mm)
2.0±0.2	1.2±0.2	1.2±0.2	0.55±0.1	0.46±0.1	0.15±0.1

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	180°C	60 to 120s	230°C	25 to 35s	250°C	5s