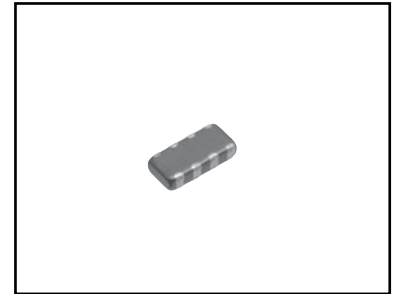


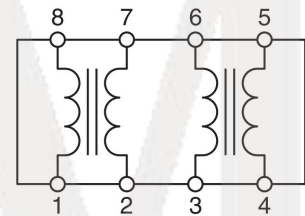
Description

- ◆ 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
- ◆ Multichannel common-mode filter can simultaneously process the common-mode noise on two pairs of differential signals



Features

- ◆ Size:2.0 mm*1.0 mm*0.5 mm
- ◆ Halogen free ,Lead free ,Reach and RoHs
- ◆ HDMI,LCD,MIPI



Circuit Diagram

Application

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

PIN NUMBER	DESCRIPTION
① ~ ⑧	DATE LINE
② ~ ⑦	DATE LINE
③ ~ ⑥	DATE LINE
④ ~ ⑤	DATE LINE

Order information

Model	Marking	Package	shipping
CMF2010DH101MFR		2010	4000Tape&Reel

Part Numbering

CMF	2010	DH	101	M	F	R
A	B	C	D	E	F	G

A:ASIM common mode filter

B:Dimension

C:Ordinary high speed differential signal

D:Common Mode Impedance (at 100MHz), 101= 100Ω

E:Tolerance of common mode impedance, M= ±20%

F:Type of electrode plating: F= Lead Free

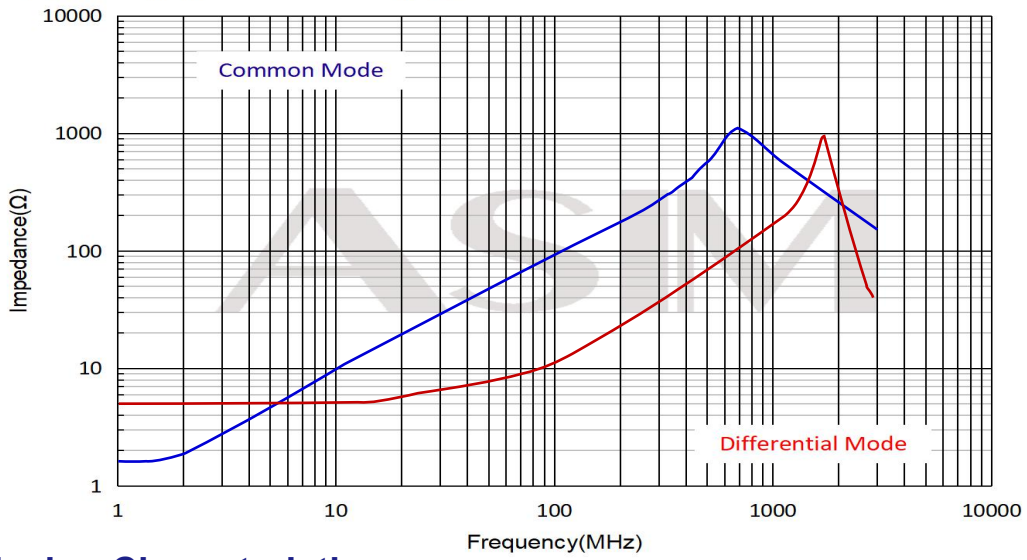
G:Packing Type, R= Reel

Specification

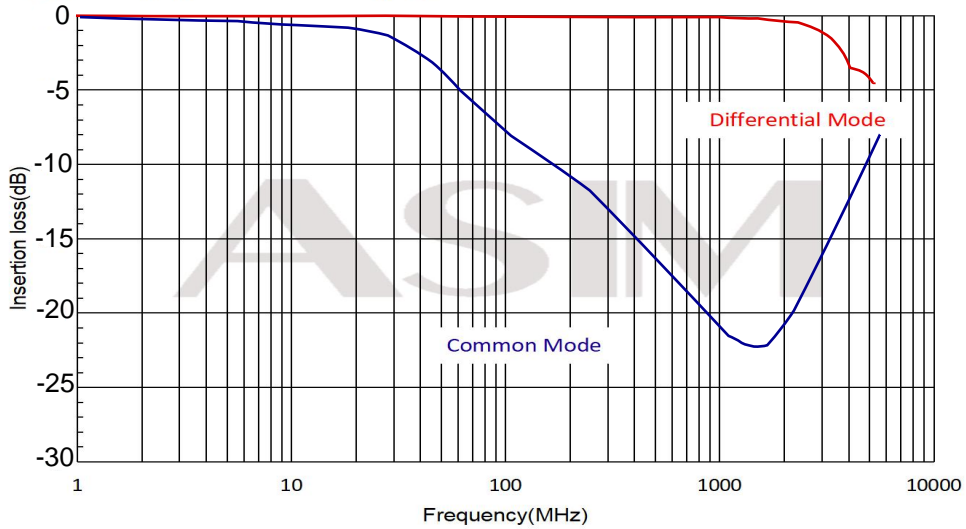
Part number	Common mode impedance(Ω) @100MHz	Rated Current (mA)	DC Resistance (Ω) max
CMF2010DH101MFR	100±20%	100	4.0
	Rated volt (Vdc)	Withstand volt (Vdc)	IR (Ω) min
	5	10	10M
	Operation junction temperature	Lead temperature	Storage temperature*
	-40°C~+85°C	260°C	-40°C~85°C

*The storage temperature is subject to the fixed substrate

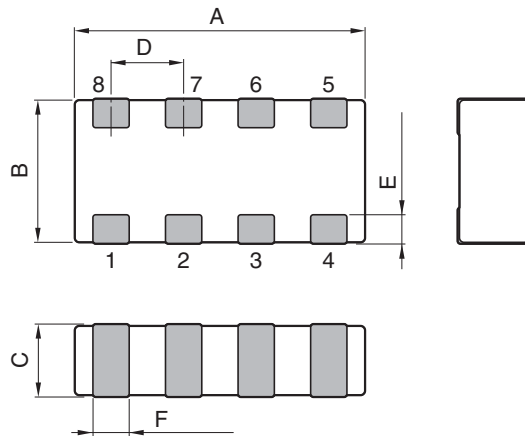
Performance Curves



Transmission Characteristics

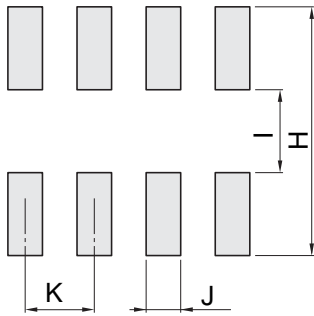


Dimension (mm)



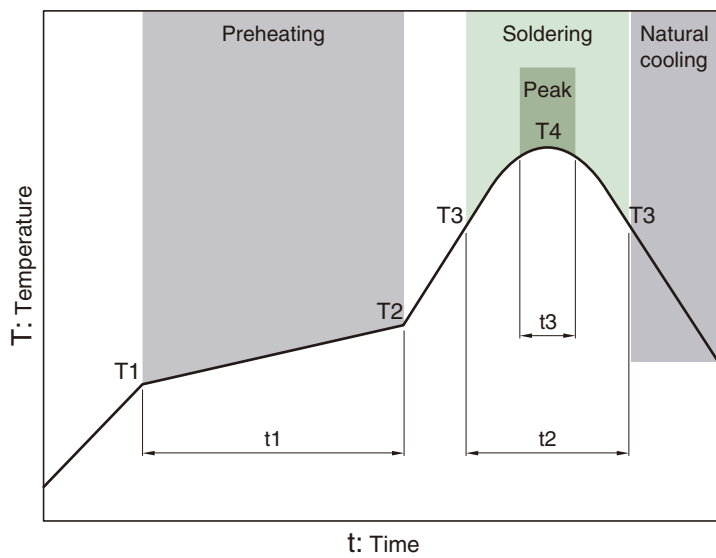
Symbol	A	B	C	D	E	F
Dimension	2.0±0.15	1.0±0.15	0.5±0.1	0.5±0.1	0.2±0.15	0.25±0.1

Recommended Land Pattern (mm)



Symbol	H	I	J	K
Dimension	1.8	0.6	0.25	0.5

Recommended Reflow Profile



Preheating			Soldering		Peak	
Temp.	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