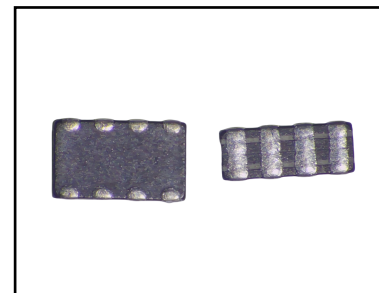


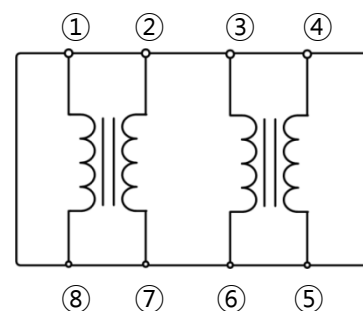
Desicription

- ◆ 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*0.8mm
- ◆ LVDS lines in notebook computers;
- ◆ USB2.0, IEEE1394, DVI, HDMI lines in PDP;
- ◆ LCD TV, DVD Player, PC, Audio player, DSC;
- ◆ MDDI, MIPI in mobile phone.



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	Package	shipping
CMF2012DH101MCT-4P	2012	4000/Tape&Reel

Part Numbering

CMF	2012	DH	101	M	C	T	4P
A	B	C	D	E	F	G	H

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= ±25%

F:Internal definition.

G:Packing Type, R= Reel

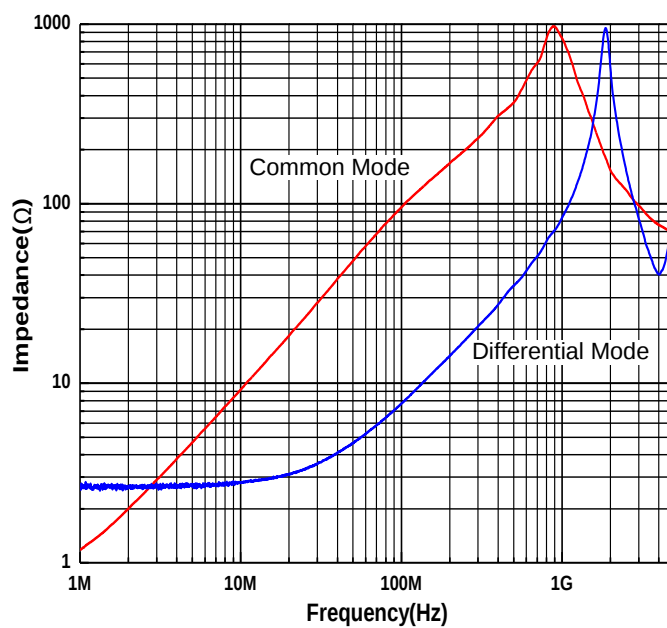
H:4 lines

Specification

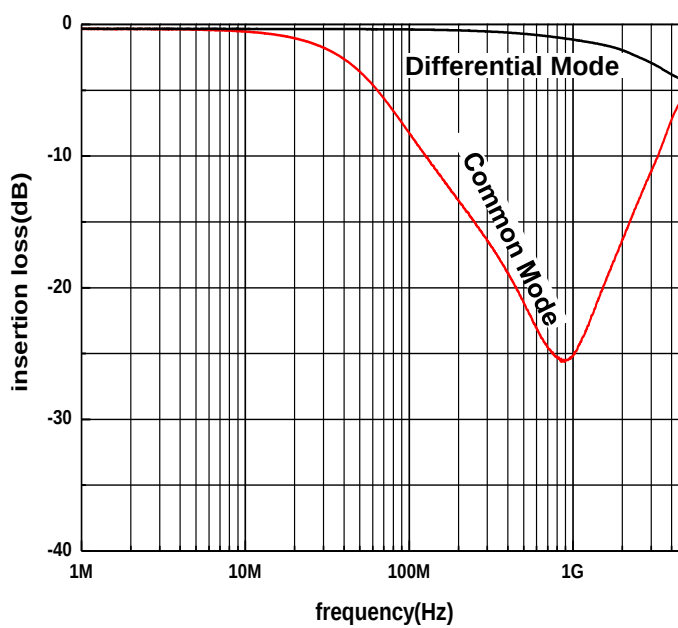
Part number	Common mode impedance(Ω) @100MHz	Rated Current (mA)	DC Resistance (Ω) max
CMF2012DH101MCT-4P	100±25%	100	4.0
	Rated volt (Vdc)	Withstand volt (Vdc)	IR (Ω) min
	5.0	-	10M
	Operation junction temperature	Lead temperature	Storage temperature*
	-40℃~+85℃	260℃	-40℃~85℃

*The storage temperature is subject to the fixed substrate

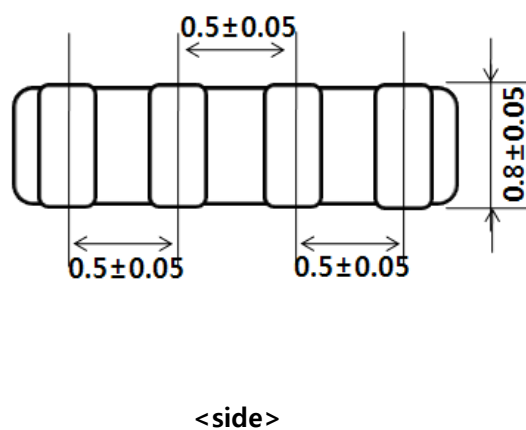
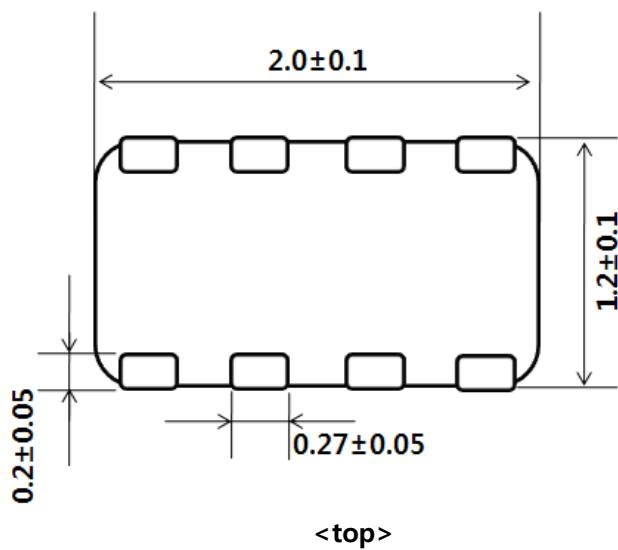
Performance Curves



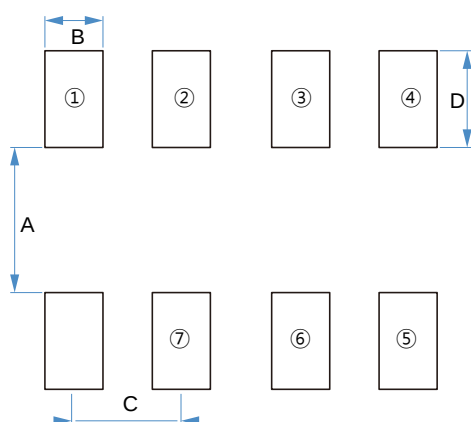
Transmission Characteristics



Dimension (mm)

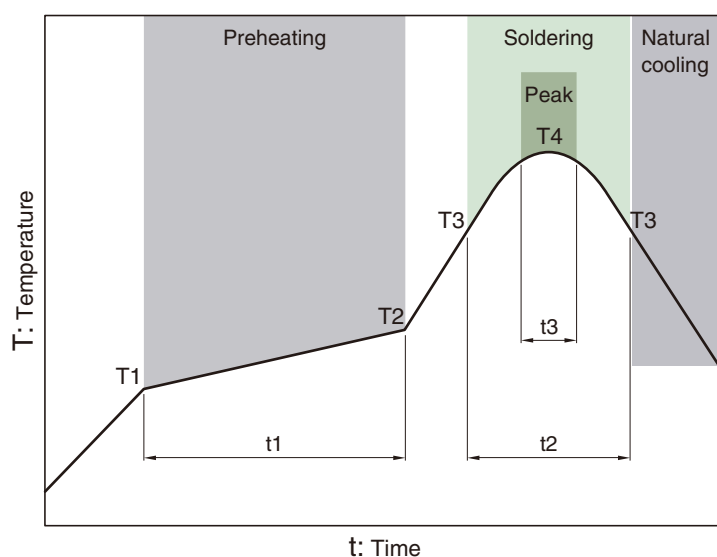


Recommended Land Pattern (mm)



Symbol	A	B	C	D
Dimension	0.70	0.27	0.50	0.50

Recommended Reflow Profile

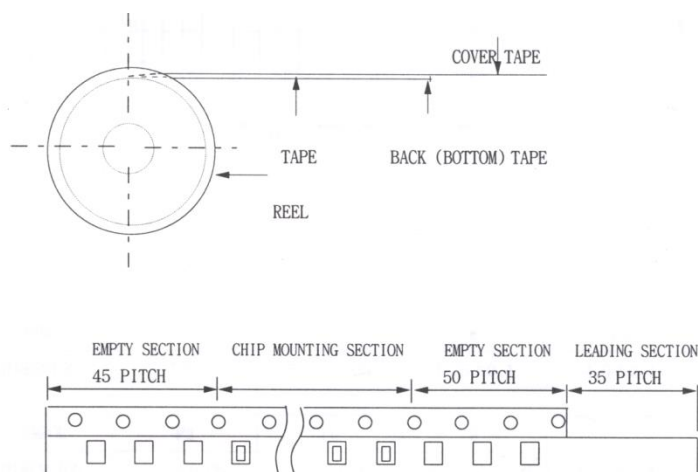


Preheating			Soldering		Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3
160°C	185°C	100 to 120S	220°C	30 to 50s	260°C	10s

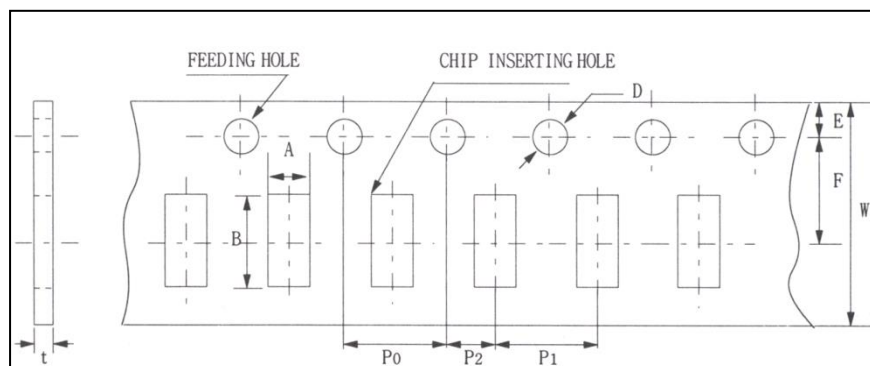
RECOMMENDED HAND SOLDER

- Max Temperature: Max 380 °C(Max 5sec)

TAPING FIGURE



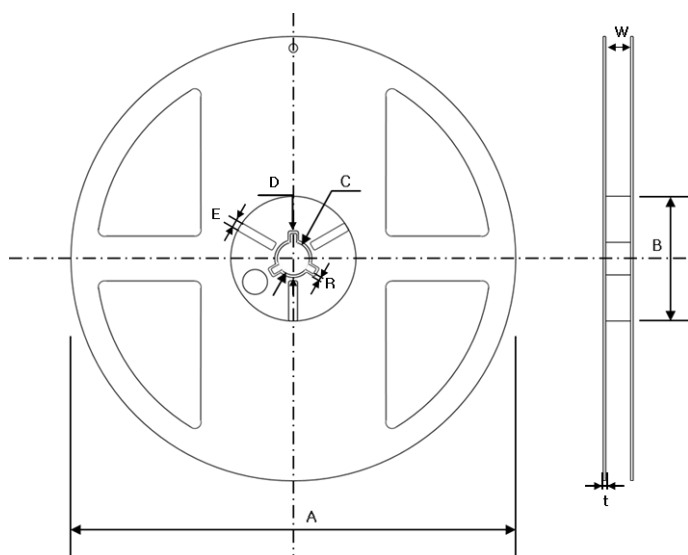
CARRIER TAPE DIMENSIONS



Unit : mm

SYMBOL		A	B	W	F	E	P ₁	P ₂	P ₀	D	T
DIMENSION	21	1.55 ±0.05	2.3 ±0.05	8.0 ±0.1	3.5 ±0.05	1.75 ±0.05	4.0 ±0.1	2.0 ±0.05	4.0 ±0.1	1.55 ±0.03	0.95 ±0.05

REEL DIMENSIONS



- (1) Reel Materials: Polystyrene
- (2) Label
- (3) Taping
 - Standard Packing Quantity per Reel ($\phi 178$)
 - Paper Tape: 4,000pcs

Unit : mm

CODE	A	B	C	D	E	W	t	R
DIMENSION	$\phi 178 \pm 2$	Min. $\phi 50$	$\phi 13 \pm 0.5$	$\phi 20 \pm 0.8$	3.0 ± 0.5	10 ± 1.5	1.3 ± 0.2	1.0 ± 0.2