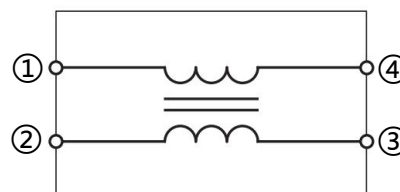


Desicription

- ◆ 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



Circuit Diagram

Features

- ◆ Size:1.27mm*1.0mm*0.6mm
- ◆ USB2.0,USB3.1,Type -C ;
- ◆ HDMI 2.0 ;
- ◆ MDDI, MIPI, MHL.

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

Application

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

Order information

Model	Package	shipping
CMF1210DH150NCT	1210	4000/Tape&Reel

Part Numbering

CMF	1210	DH	150	N	C	T
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),150= 15Ω

E:Tolerance of common mode impedance, N= ±30%

F:Internal definition

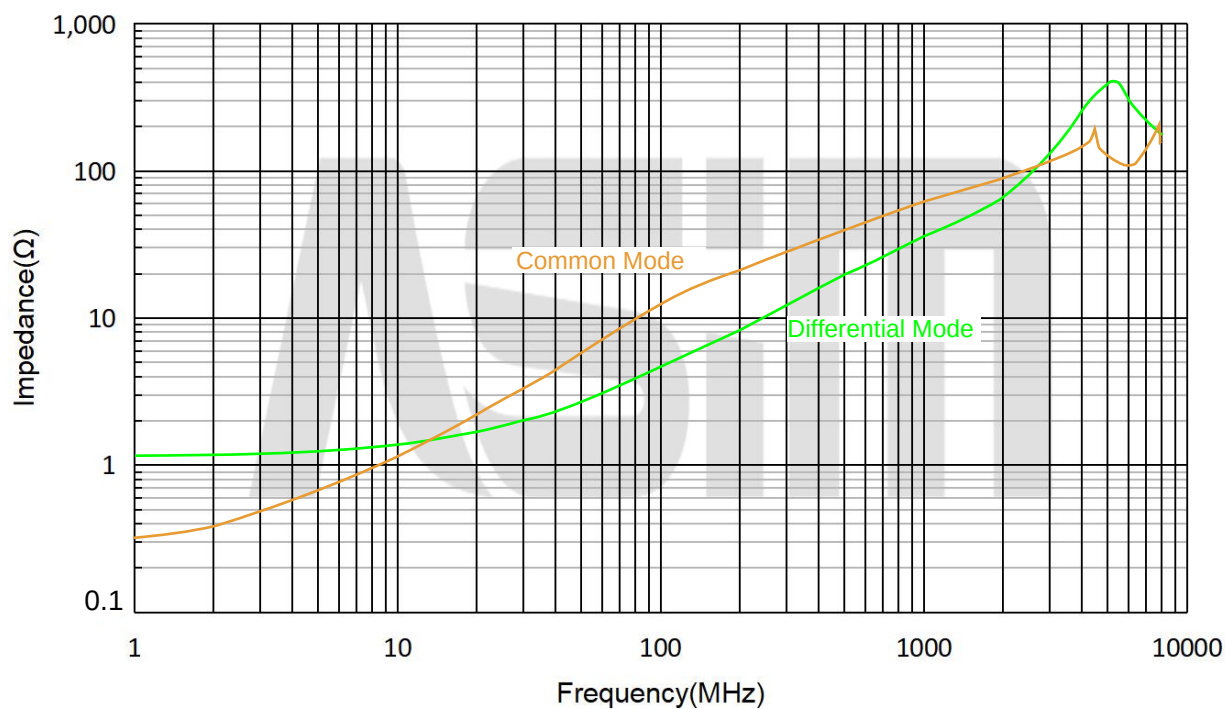
G:Packing Type, R= Reel

Specification

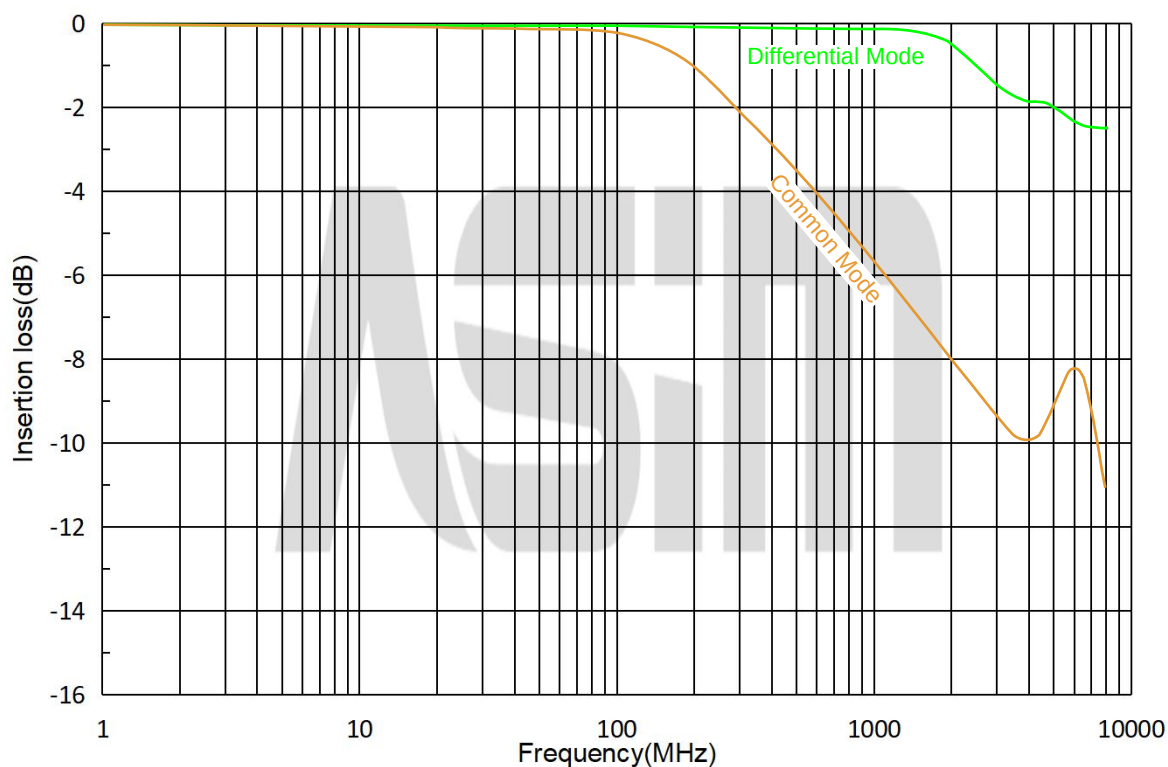
Part number	Common mode impedance(Ω) @100MHz	Rated Current (mA)	DC Resistance (Ω) max
CMF1210DH150NCT	15±30%	100	4.0
	Rated volt (Vdc)	Withstand volt (Vdc)	IR (Ω) min
	5.0	-	10M
	Operation junction temperature	Lead temperature	Storage temperature*
	-40℃~+85℃	260℃	-40℃~85℃

*The storage temperature is subject to the fixed substrate

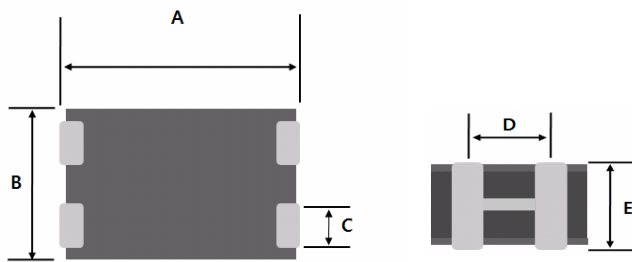
Performance Curves



Transmission Characteristics

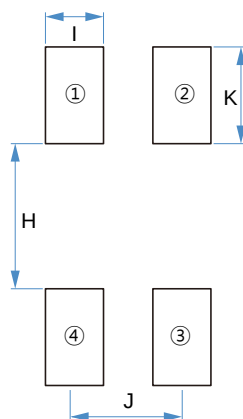


Dimension (mm)



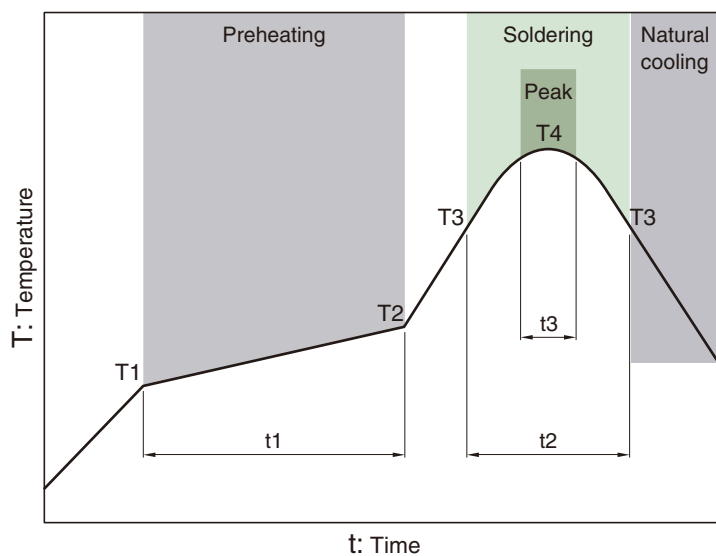
Symbol	A	B	C	D	E
Dimension	1.27±0.10	1.00±0.10	0.30±0.1	0.55±0.1	0.6±0.10

Recommended Land Pattern (mm)



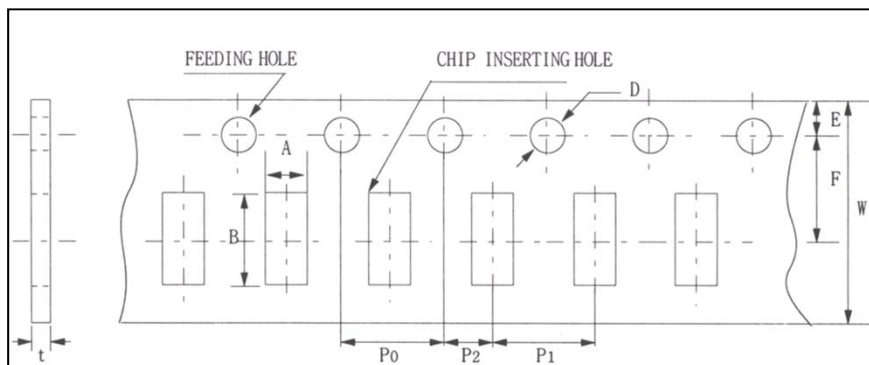
Symbol	H	I	J	K
Dimension	0.75	0.3	0.55	0.5

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

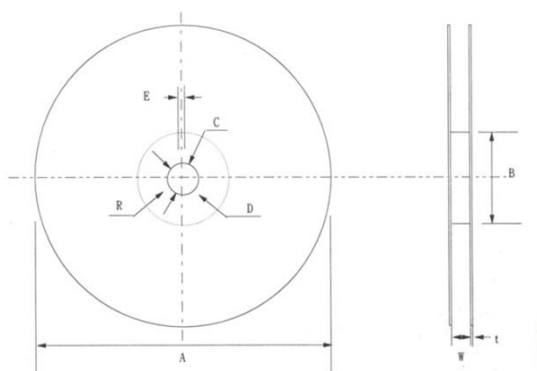
CARRIER TAPE DIMENSIONS



Unit : mm

SYMBOL		A	B	W	F	E	P ₁	P ₂	P ₀	D	t
DIMENSION	11	1.15 ±0.05	1.5 ±0.05	8.0 +0.30 -0.10	3.5 ±0.05	1.75 ±0.05	4.0 ±0.10	2.0 ±0.05	4.0 ±0.10	1.55 ±0.03	0.75 ±0.05

REEL DIMENSIONS



Unit : mm

CODE	A	B	C	D	E	W	t	R
DIMENSION	φ178±2	Min. φ50	φ13±0.5	φ21±0.8	2.0±0.5	10±1.5	0.8±0.2	1.0