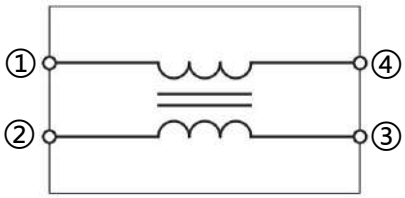
Desicription

- 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:1.2mm*1.0mm*0.9mm
- Halogen free ,Lead free ,Reach and RoHs
- USB3.0/USB3.1/USB4.0/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
CMF1210WE150MQT	**1210**	**3000/Tape&Reel**

Part Numbering

CMF	1210	W	E	150	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 USB4.0/ 12.0GHz

E:Impedance 150=15Ω

F:Tolerance M±25%

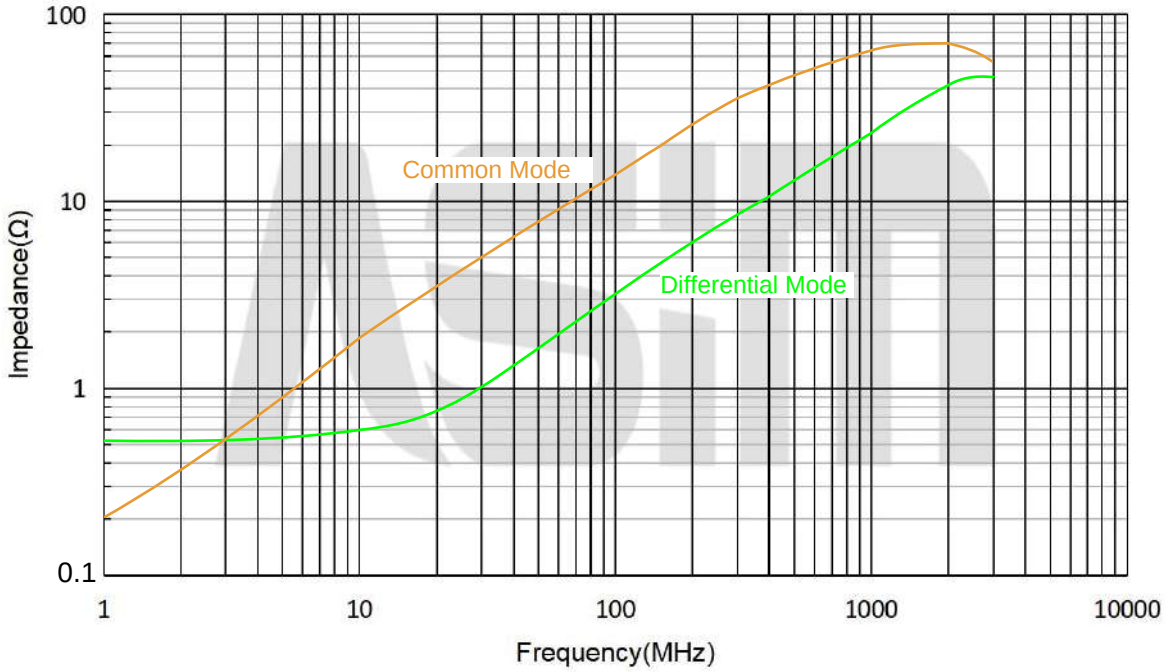
G:Internal series

H:Tape

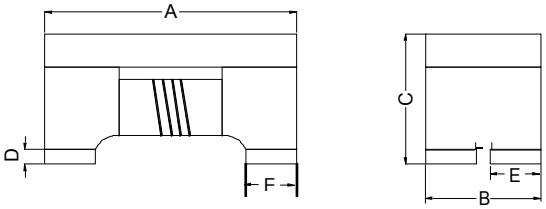
Specification

Part number	Common mode impedance(Ω) @100MHz	Rated Current (mA)	DC Resistance (Ω) max
CMF1210WE150MQT	15±25%	500	0.12
	Rated volt (Vdc)	**Withstand volt (Vdc)**	**IR (Ω) min**
	20	20	10M
	Operation junction temperature	**Lead temperature**	**Storage temperature**
	-40 to +105℃	260℃	Less than 40℃ and 60% RH

Performance Curves

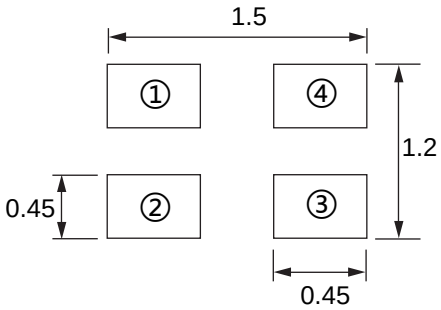


Dimension

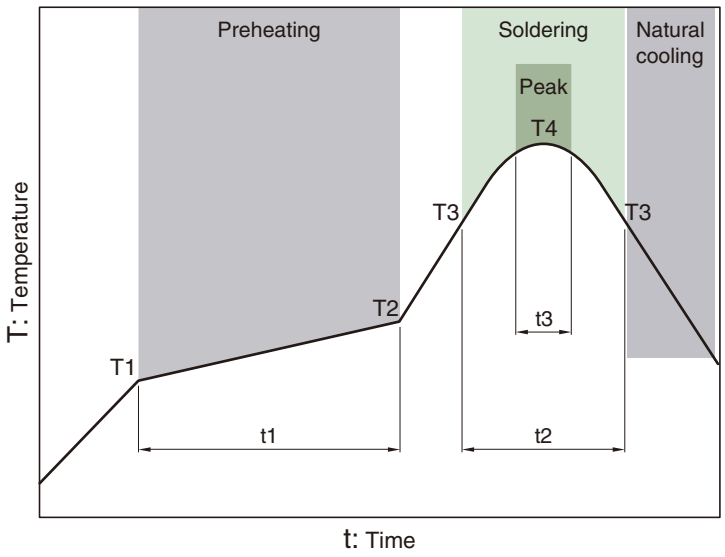


A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
1.2±0.2	1.0±0.2	0.9±0.2	0.15±0.1	0.36 Typ	0.33 Typ

Recommended Land Pattern (mm)

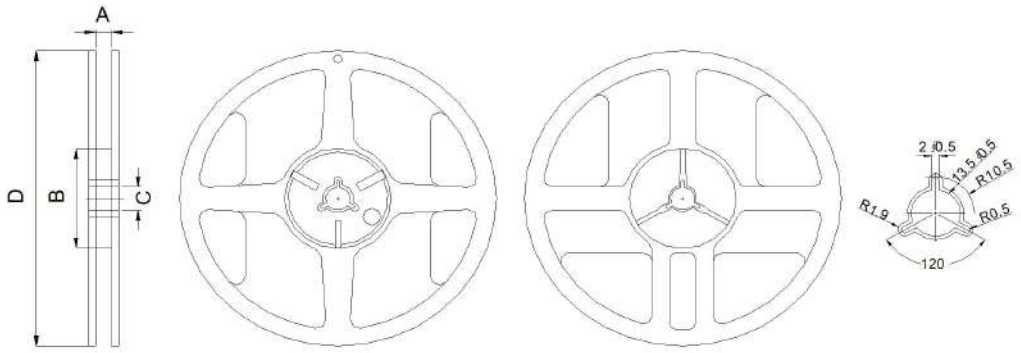


Recommended Reflow Profile

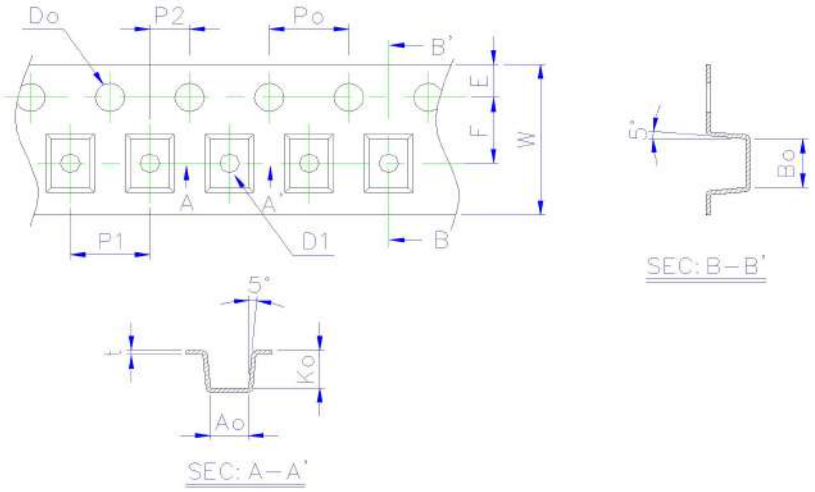


Preheating			Soldering		Peak	
Temp.		Time	Temp.	Time	Temp.	Time
T1	T2	t1	T3	t2	T4	t3
150°C	200°C	60 to 180s	230°C	60 to 150s	260°C	10s Max

Reel Dimmension&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)
1210	0.22±0.05	1.22±0.05	1.45±0.05	0.96±0.05	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