

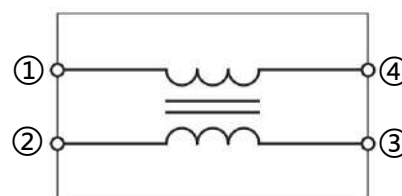
Desicription

- ◆ 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*1.2mm
- ◆ Halogen free ,Lead free ,Reach and RoHs



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
CMF2012WD300MQT	2012	2000/Tape&Reel

Part Numbering

CMF	2012	W	D	300	M	Q	T
A	B	C	D	E	F	G	H

A:ASIM common mode filter

B:Dimension

C:Wire wound

D:Shielding type

E:Impedance 300=30Ω

F:Tolerance M±25%

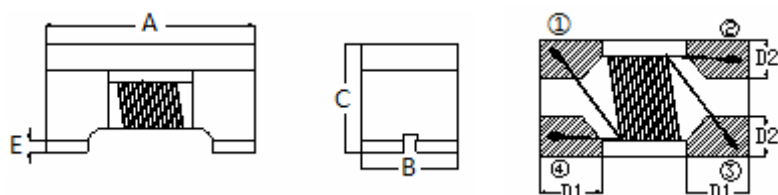
G:Internal series

H:Tape

Specification

Part number	Common mode impedance(Ω) @100MHz	Rated Current (mA)	DC Resistance (Ω) max
CMF2012WD300MQT	30±25%	450.0	0.2
	Rated volt (Vdc)	IR (MΩ) min	
	50.0	10.0	

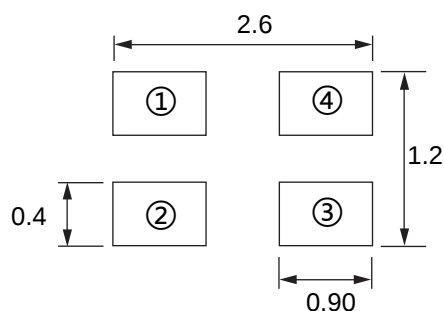
Dimension



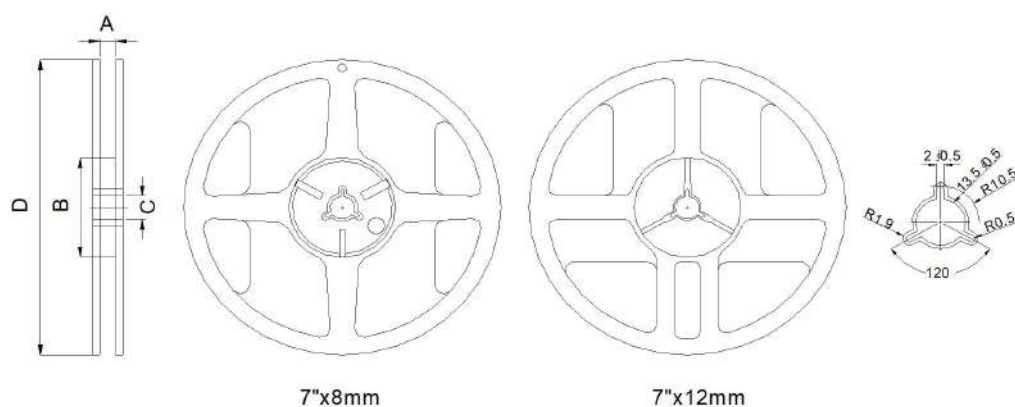
UNIT:mm

CODE	A	B	C	D1	D2	E
DIMENSION	2.0 ± 0.2	1.2 ± 0.2	1.2 ± 0.2	0.55Typ.	0.46Typ.	0.2 ± 0.1

Recommended Land Pattern (mm)



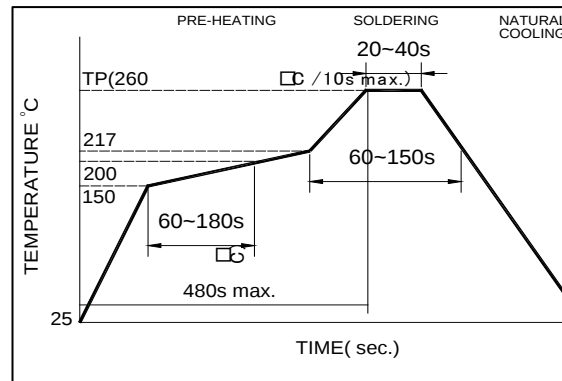
Reel Dimension&Tape Dimension



Type	A(mm)	B(mm)	C(mm)	D(mm)
7"x8mm	8.0 ± 0.5	22 ± 2.0	12.5 ± 1.5	178 ± 2.0
7"x12mm	12.0 ± 0.5	22 ± 2.0	12.5 ± 1.5	178 ± 2.0

Recommended Reflow Profile

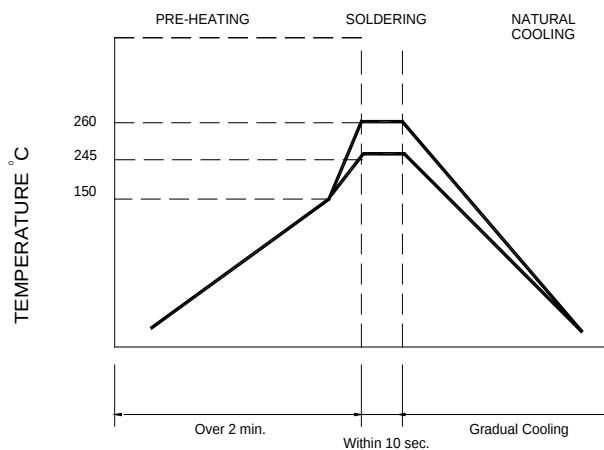
**Figure 1.
Re-flow
Soldering (Lead
Free)**



Note:

- Preheat circuit and products to 150°C
- 260°C tip temperature (max)
- Reflow times: no more than 2 times
- Solder paste thickness: the best 0.08mm is ,but max is 0.1mm

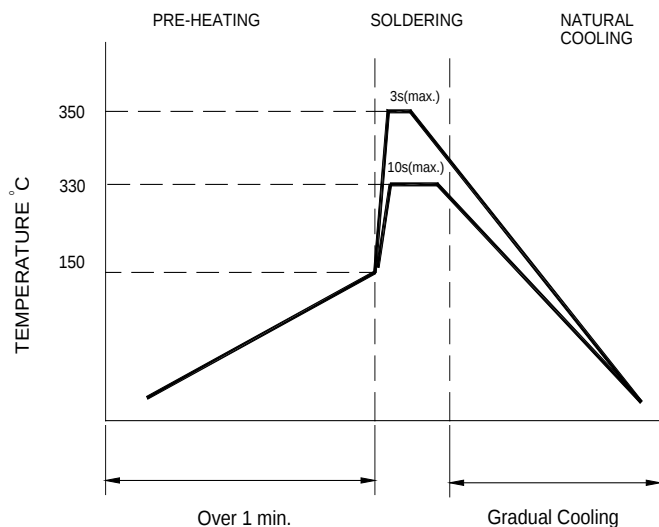
**Figure 2.
Wave Soldering**



Note :

- Never contact the ceramic with the iron tip
- 1.0mm tip diameter (max)

**Figure 3.
Hand Soldering**



Note:

- Use a 20 watt soldering iron with tip diameter of 1.0mm
- Limit soldering time to 3 sec.