



## Wire Wound Common Mode Filter - CMC

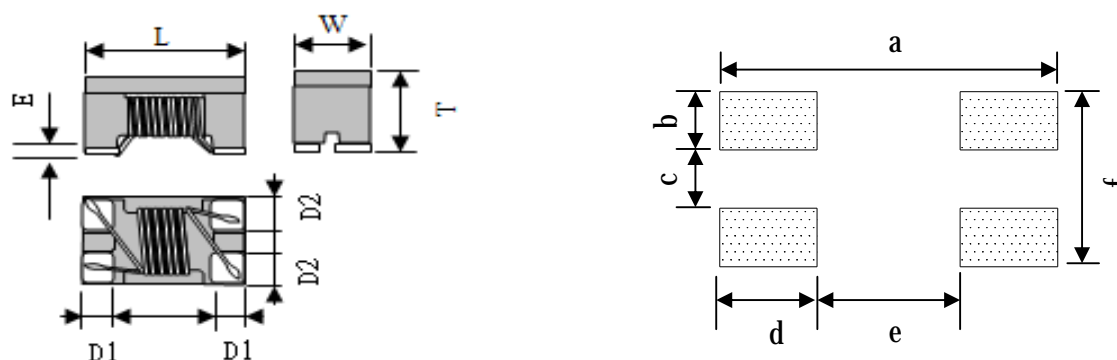
### ■ Features

1. High common mode impedance at high frequency effects excellent noise suppression performance;
2. CMC series realizes small size and low profile;
3. The products contain no lead and also support lead-free soldering.

### ■ Applications

Common mode noise suppression of signal lines in high speed and high density digital equipment such as personal computers and peripherals.

### ■ Dimensions and Construction



Dimensions in mm

TYPE	L(±0.2)	W(±0.2)	T(±0.2)	D1	D2	E	a	b	c	d	e	f
2012	2.00	1.20	1.20	0.50	0.50	0.17	2.6	0.4	0.4	0.8	1	1.2
3216	3.20	1.60	1.90	0.60	0.60	0.17	3.7	0.6	0.4	1.05	1.6	1.6

### ■ Part Numbering System

**CMC** **3216** **S** - **900** - **2P** - **T**  
**A** **B** **C** **D** **E** **F**

**A:Series**

**B:Chip Dimension (L\*W)**

**C:Material Type**

**D: Impedance Value**

900 = 90Ω

**E: Number of line 2P : 2-Line**

**F:Packaging : T=Taping and Reel,B=Bulk(Bags)**

### ■ Electrical Characteristics

(1) Operating Temperature Ranges: -25~85°C.

(2) Rated Current: DC current that causes the temperature rise ( $\Delta T \leq 40^\circ \text{C}$ ) from 25° C ambient.

### ■ Electrical Parameters

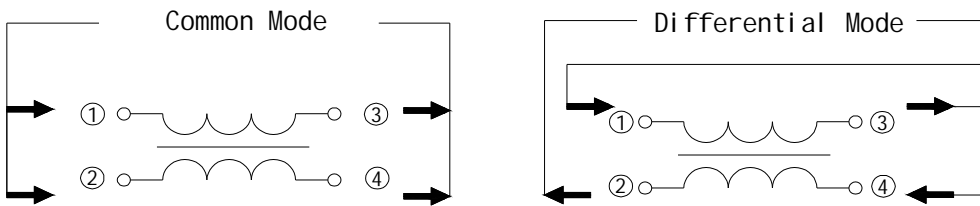


**Electrical Parameters**

Product Part Number	Common-Mode Impedance Z( $\Omega$ ) at 100MHz	Resistance Rdc( $\Omega$ ) Max.	Rated Current Idc(mA) Max.	Rated Voltage Vdc(V)	Insulation Resistance (M $\Omega$ )Min.	Remark
CMC2012S-670-2P-T	67 $\pm$ 25%	0.25	400	50	10	
CMC2012S-750-2P-T	75 $\pm$ 25%	0.30	400	50	10	
CMC2012S-900-2P-T	90 $\pm$ 25%	0.35	330	50	10	
CMC2012S-121-2P-T	120 $\pm$ 25%	0.30	370	50	10	
CMC2012S-181-2P-T	180 $\pm$ 25%	0.35	330	50	10	
CMC2012S-201-2P-T	200 $\pm$ 25%	0.35	330	50	10	
CMC2012S-221-2P-T	220 $\pm$ 25%	0.40	300	50	10	
CMC2012S-261-2P-T	260 $\pm$ 25%	0.40	300	50	10	
CMC2012S-301-2P-T	300 $\pm$ 25%	0.42	290	50	10	
CMC2012S-361-2P-T	360 $\pm$ 25%	0.45	280	50	10	
CMC2012S-371-2P-T	370 $\pm$ 25%	0.45	280	50	10	
CMC2012S-601-2P-T	600 $\pm$ 25%	0.60	220	50	10	
CMC3216S-900-2P-T	90 $\pm$ 25%	0.30	370	50	10	
CMC3216S-161-2P-T	160 $\pm$ 25%	0.40	340	50	10	
CMC3216S-261-2P-T	260 $\pm$ 25%	0.50	310	50	10	
CMC3216S-601-2P-T	600 $\pm$ 25%	0.80	260	50	10	
CMC3216S-102-2P-T	1000 $\pm$ 25%	1.00	230	50	10	
CMC3216S-222-2P-T	2200 $\pm$ 25%	1.20	200	50	10	

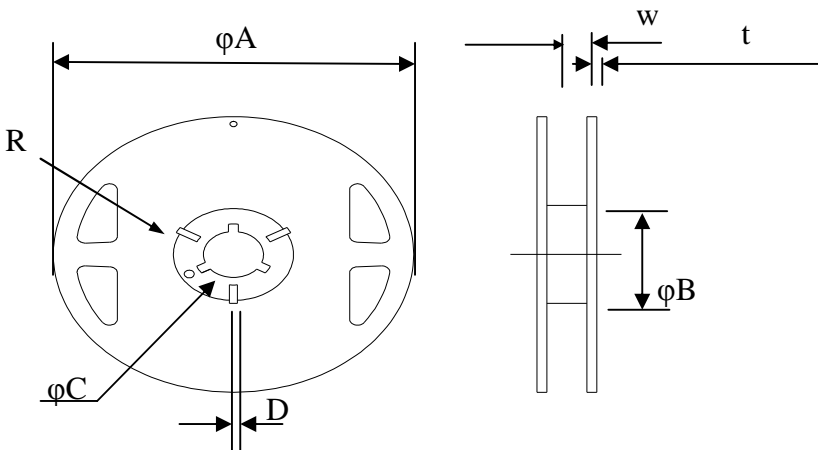
**Impedance**

Measured by using Agilent E4991A RF Impedance Analyzer.



**■ Packaging**

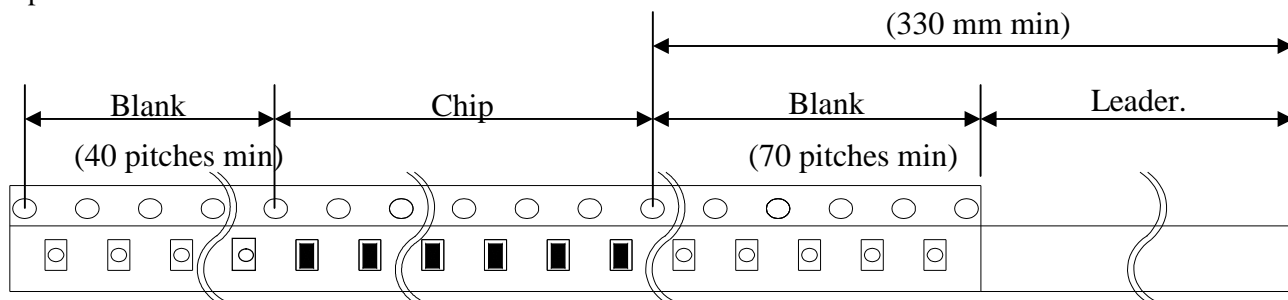
1.Reel Dimensions (Unit:mm)



Symbol	T
$\phi A$	180 $\pm$ 3
$\phi B$	60 $\pm$ 1
$\phi C$	13 $\pm$ 0.2
D	2.2 $\pm$ 0.5
W	9.0 $\pm$ 0.3
t	1.2
R	1

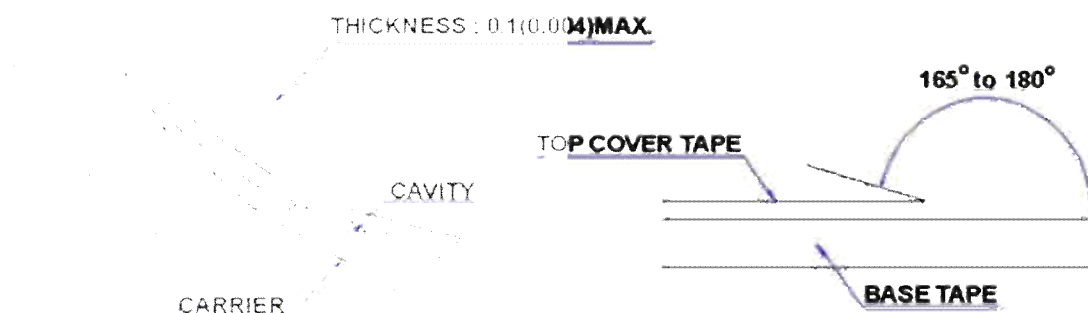


## 2. Tape Dimension



## 3. Packaging -Cover Tape

The force for tearing off cover tape is 10 to 100 grams in the arrow direction.

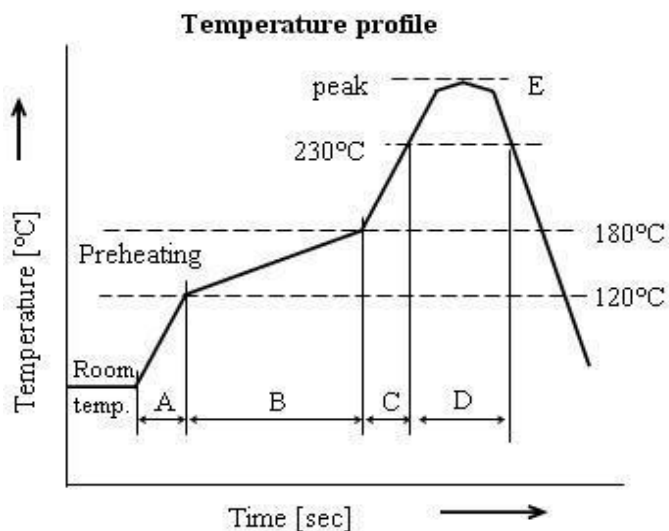


## 4. Packaging Quantity

Type	Pcs/Reel
CMC2012S	2000/3000
CMC3216S	2000

## ■ Soldering

Reflow Soldering



A	Temp. rise gradient	1~5 °C/sec
B	Heating time	50~150 sec
	Heating temperature	120~180 °C
C	Temp. rise gradient	1~5 °C/sec
D	Time over 230°C	70 sec
E	Peak temperature	260 °C
	Peak-temp. hold time	Momentary
Soldering		2 times