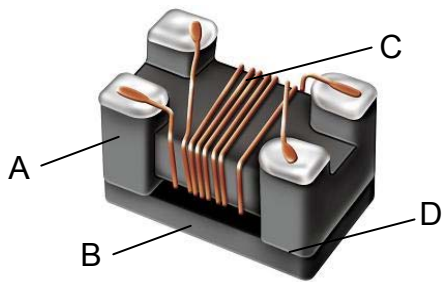


● **STRUCTURE AND MATERIAL**



Part	Components	Material
A	Core	Ferrite
B	I Core	Ferrite
C	Wire	Polyurethane enameled copper wire
D	Epoxy	Epoxy resin

● **ELECTRICAL CHARACTERISTICS**

1. Operating temperature range : $-40^{\circ}\text{C} \sim 85^{\circ}\text{C}$ (Including self - temperature rise)
2. Storage temperature range (packaging conditions): $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ and RH 70% (Max.)

● **TEST AND MEASUREMENT PROCEDURES**

1. Common Mode Impedance(Ω)

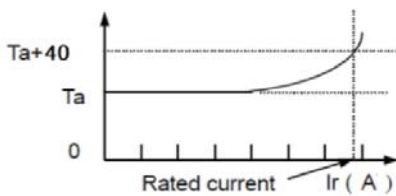
Test equipment: Keysight E4991B / Agilent 4787A or equivalent

2. DC Resistance (DCR)

Test equipment: Agilent34420A / Agilent 4338B or equivalent

3. Rated Current (I_{rms})

I_{rms} is direct electric current as chip surface temperature rose just 40 against chip initial surface temperature (T_a)



4. Insulation Resistance

Test equipment: Chroma or equivalent TH2683A / ZX6583

● **RECOMMENDED SOLDERING TECHNOLOGIES**

Re-flowing Profile

Preheat condition: 150~200 /60~120sec.

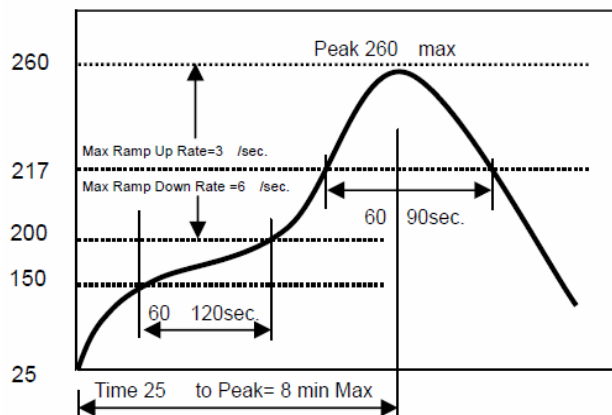
Allowed time above 217C: 60~90sec.

Max temp: 260

Max time at max temp: 10sec

Solder paste: Sn/3.0Ag/0.5Cu

Allowed Reflow time: 2 times max



● SPECIFICATION TABLE:

CMF2012 Series

Part No.	Common Mode Impedance(Ω)	Test Frequency (MHz)	DCR (Ω) Max	Max. Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (M Ω) Min.
CMF2012D300PT-HF	30 \pm 25%	100	0.20	450	50	10
CMF2012D670PT-HF	67 \pm 25%	100	0.25	400	50	10
&0)□ 75037-(+)	75 \pm 25%	100	0.30	400	50	10
&0)□ 900-P7-(+)	90 \pm 25%	100	0.30	330	50	10
&0)□ 12137-(+)	120 \pm 25%	100	0.30	370	50	10
&0)□ 18137-(+)	180 \pm 25%	100	0.35	330	50	10
CMC2012S-201-2P-T	200 \pm 25%	100	0.35	330	50	10
CMC2012S-221-2P-T	220 \pm 25%	100	0.40	300	50	10
CMC2012S-261-2P-T	260 \pm 25%	100	0.40	300	50	10
CMC2012S-371-2P-T	370 \pm 25%	100	0.45	280	50	10
CMC2012S-601-2P-T	600 \pm 25%	100	0.60	220	50	10
CMC2012S-751-2P-T	750 \pm 25%	100	0.70	180	50	10
CMC2012S-801-2P-T	800 \pm 25%	100	0.75	160	50	10
CMC2012S-901-2P-T	900 \pm 25%	100	0.80	150	50	10
CMC2012S-102-2P-T	1000 \pm 25%	100	0.80	150	50	10

1. Operating temperature range : -40°C ~ 85°C (Including self - temperature rise)
2. Storage temperature range (packaging conditions): -10°C ~ +40°C and RH 70% (Max.)
3. Rated Current (Irms)
Irms is direct electric current as chip surface temperature rose just 40 against chip initial surface temperature (Ta)

● SPECIFICATION TABLE:

CMC3216S Series

Part No.	Common Mode Impedance(Ω)	Test Frequency (MHz)	DCR (Ω) Max	Max. Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (M Ω) Min.
CMC3216S-900-2P-T	90 \pm 25%	100	0.30	370	50	10
CMC3216S-161-2P-T	160 \pm 25%	100	0.40	340	50	10
CMC3216S-261-2P-T	260 \pm 25%	100	0.50	310	50	10
CMC3216S-601-2P-T	600 \pm 25%	100	0.80	260	50	10
CMC3216S-102-2P-T	1000 \pm 25%	100	1.00	230	50	10
CMC3216S-222-2P-T	2200 \pm 25%	100	1.20	200	50	10

CMC3225S Series

Part No.	Common Mode Impedance(Ω)	Test Frequency (MHz)	DCR (Ω) Max	Max. Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (M Ω) Min.
CMC3225S-800-2P-T	80 \pm 25%	100	0.12	640	50	10
CMC3225S-161-2P-T	160 \pm 25%	100	0.15	480	50	10
CMC3225S-271-2P-T	270 \pm 25%	100	0.25	450	50	10
CMC3225S-102-2P-T	1000 \pm 25%	100	1.00	230	50	10

CMC4532S Series

Part No.	Common Mode Impedance(Ω)	Test Frequency (MHz)	DCR (Ω) Max	Max. Rated Current (mA)	Rated Voltage (Vdc)	Insulation Resistance (M Ω) Min.
CMC4532S-331-2P-T	330 \pm 25%	100	0.11	1100	50	10
CMC4532S-601-2P-T	600 \pm 25%	100	0.12	1000	50	10
CMC4532S-801-2P-T	800 \pm 25%	100	0.16	900	50	10

1. Operating temperature range : -40 $^{\circ}$ C ~ 85 $^{\circ}$ C (Including self - temperature rise)
2. Storage temperature range (packaging conditions): -10 $^{\circ}$ C ~ +40 $^{\circ}$ C and RH 70% (Max.)
3. Rated Current (Irms)

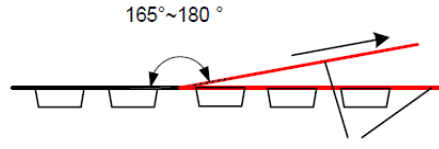
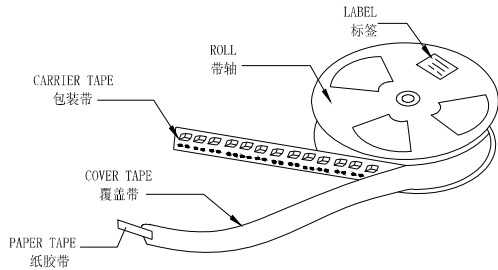
Irms is direct electric current as chip surface temperature rose just 40 against chip initial surface temperature (Ta)



● **PACKAGING SPECIFICATION :**

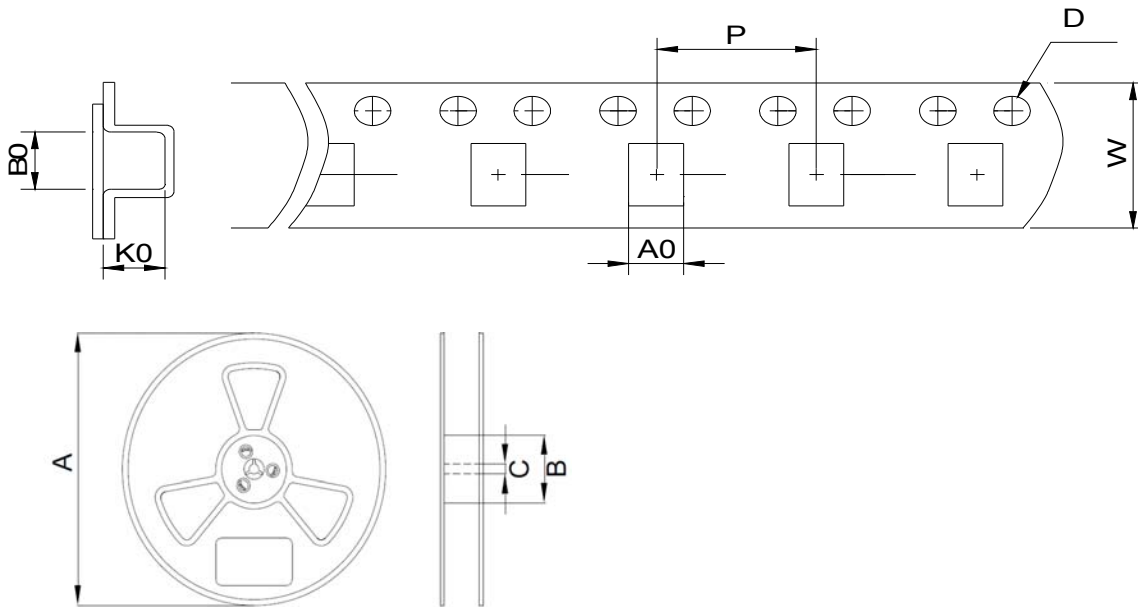
1. Packaging - Cover Tape

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



Top cover tape
Peel-off speed: 300mm/min.

2. Packaging - Tape & Reel



Type	Tape Dimension (mm)						Reel Dimension (mm)			Quantity (Pcs/Reel)
	W	A0	B0	K0	D	P	A	B	C	
CMC1210	8	1.3	1.5	1	1.5	4	178	58	13	2000 pcs
CMC2012	8	1.5	2.3	1.55	1.5	4	178	58	13	2000 pcs
CMC3216	8	2	3.6	2.2	1.5	4	178	58	13	2000 pcs
CMC3225	12	2.9	3.6	2.2	1.5	8	178	58	13	1000 pcs
CMC4532	16	3.6	4.9	3.2	1.5	8	330	100	13	3000 pcs