

CHIP FEEDTHRU CAPACITORS

Features

1. SMD Type Chip Feedthru Capacitors provide highly reliable surface mount application.
2. High-level noise suppression.
3. High frequency characteristics.
4. From a wide variety of capacitance, the best suited filter can be selected to countermeasure the specific noise.

Applications

1. Device connecting signal lines and DC power lines.
2. Noise suppression in high impedance circuits such as digital VCR, digital TV, etc.

Ordering Information

$\frac{\text{T C F - A}}{(1) \quad (2)} \quad \frac{3 2 1 6 - 2 2 3}{(3) \quad (4)} \quad \frac{\text{J T}}{(5) \quad (6)}$

(1) Series

TCF:Chip Feedthru Capacitor

(3) Dimensions

The first two digits:length(mm)
The last two digits:width (mm)

(5) Termination

J : Nickel barrier

(2) Material

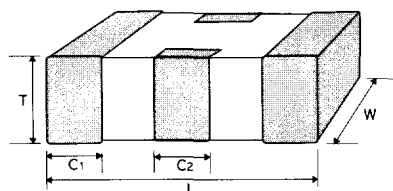
(4) Normal capacitance

The first two digits are significant.
The last digit is the number of zeros following.

(6) Packing

B : Bulk Pack
T : Tape & Reel($\varnothing$ 178mm [7 inches])
L : Tape & Reel($\varnothing$ 254mm [10 inches])

Shape and Dimensions



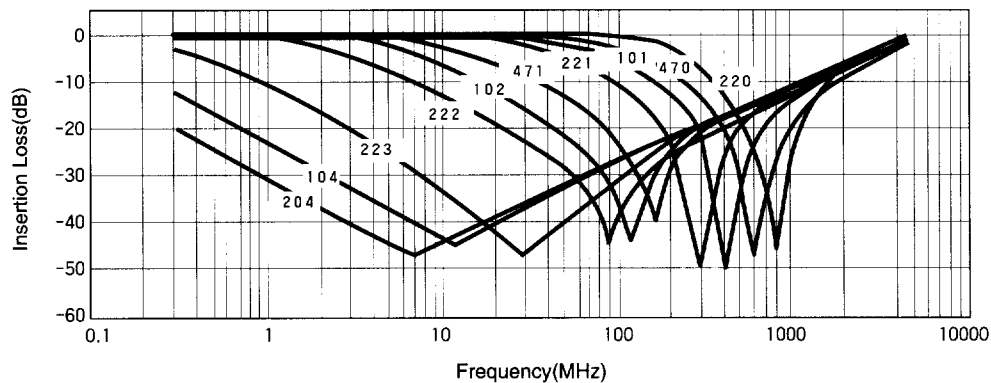
unit:mm[inches]

Type	L	W	T	C1(max.)	C2(max.)
TCF-□2012-	2.0±0.2 [.079±.008]	1.25±0.2 [.049±.008]	0.8±0.2 [.031±.008]	0.4 [.016]	0.5 [.020]
TCF-□3216-	3.2±0.2 [.126±.008]	1.6±0.2 [.063±.008]	1.3±0.2 [.051±.008]	0.7 [.028]	1.2 [.047]
TCF-□4516-	4.5±0.2 [.177±.008]	1.6±0.2 [.063±.008]	1.3±0.2 [.051±.008]	0.8 [.031]	1.2 [.047]

Specifications

Part No.	Capacitance	Rated Current	SIZE	Rated Voltage	Insulation Resistance	DC Resistance	Operating Temp. Range						
		Aac		Vdc	MΩ (min.)	Ω (max.)							
TCF-A□□□□-220□□	22pF ± 50/20 %	1.0	2012	16	1000	0.3	-55°C to + 125°C -55°C to + 85°C						
TCF-A□□□□-470□□	47pF ± 50/20 %												
TCF-A□□□□-101□□	100pF ± 50/20 %		3216	25	1000	0.3							
TCF-A□□□□-221□□	220pF ± 50/20 %												
TCF-B□□□□-471□□	470pF ± 50/20 %												
TCF-B□□□□-102□□	1000pF ± 50/20 %												
TCF-C□□□□-222□□	2200pF ± 50/20 %	1.5	4516	100	10000	0.6							
TCF-C□□□□-223□□	22000pF ± 50/20 %												
TCF-D□□□□-104□□	100nF ± 50/20 %	2.0											
TCF-D□□□□-204□□	200nF ± 50/20 %												

Insertion Loss Characteristics(Typical)



Insertion Loss Measuring Circuit

