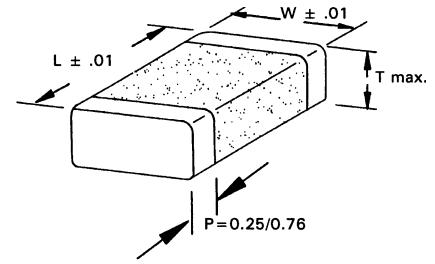


FEATURES

- Telco Capacitor. This type exclusively for Tip & Ring and ring detection circuits as STD Telecom filter to block - 48VDC telephone line voltage and pass subscribers AC signal (16Hz ~ 25Hz, 70Vrms ~ 90Vrms).
- Save board space.
- Surface Mount (EIA Sizes) packages.
- Low ESR.
- Wide band operation, excellent high frequency Telecom filtering.
- Available in X7R.



PART NUMBERING

Part Number Example: CMT-300/105KX1825TF									
CMT	-	300	/	105	K	X	1825	T	F
Type		Rated DC Voltage		Capacitance Code (pF)*	Tolerance Code	Dielectric Material**	Case Size	Package Code***	RoHs Compliant
* Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).									
** Dielectric Material: X = X7R.									
*** Package Code: T = 7" Tape & Reel, T13 = 13" Tape & Reel, W = Waffle.									

SPECIFICATIONS

Performance Characteristics	
Operating Temperature Range	-55°C ~ +125°C (X7R).
Temperature Characteristics	±15% @ 0VDC.
Voltage Range	250VDC & 300VDC (Telco rating)
Withstanding Voltage (between leads)	2.0 times rated voltage for 5 seconds ± 1 second, 50mA maximum.
Capacitance Range (1KHz)	Measured @ 1Vrms.
Capacitance Tolerance	±10% & ±20% (X7R).
Maximum Dissipation Factor % (25°C, 1KHz)	2.5 @ 1Vrms (X7R).
Minimum Insulation Resistance (25°C)	100GΩ or 1000MΩ x μF, whichever is less, measured @ rated voltage (X7R).
Minimum Insulation Resistance (125°C)	10GΩ or 100 MΩ x μF, whichever is less, measured @ rated voltage (X7R).
Aging Rate	2.5% per decade.

TIP AND RING SELECTION GUIDE

EIA	WVDC	Cap.	T.C.	THK
L = 0.079" W = 0.049" ± 0.008" 0805	250	0.001	X7R	0.051 Max
		0.0022	X7R	0.051 Max
		0.0033	X7R	0.051 Max
		0.0047	X7R	0.051 Max
		0.01	X7R	0.051 Max
		0.022	X7R	0.051 Max

EIA	WVDC	Cap.	T.C.	THK
L = 0.177" W = 0.126" 1812	250	0.1	X7R	0.06
		0.22	X7R	0.06
		0.33	X7R	0.072
		0.47	X7R	0.085
	300	0.47	X7R	0.085

L = 0.126" W = 0.063" ± 0.008" 1206	250	0.001	X7R	0.059 Max
		0.0022	X7R	0.059 Max
		0.0033	X7R	0.059 Max
		0.0047	X7R	0.059 Max
		0.01	X7R	0.059 Max
		0.022	X7R	0.059 Max
		0.033	X7R	0.059 Max
		0.047	X7R	0.059 Max

L = 0.177" W = 0.252" 1825	250	0.22	X7R	0.047
		0.33	X7R	0.053
		0.47	X7R	0.066
		1.00	X7R	0.08
	300	1.00	X7R	0.08

L = 0.126" W = 0.098" ± 0.008" 1210	250	0.001	X7R	0.067 Max
		0.0022	X7R	0.067 Max
		0.0033	X7R	0.067 Max
		0.0047	X7R	0.067 Max
		0.01	X7R	0.067 Max
		0.022	X7R	0.067 Max
		0.033	X7R	0.067 Max
		0.047	X7R	0.067 Max
		0.1	X7R	0.067 Max

L = 0.220" W = 0.20" ± 0.008" 2220	250	0.47	X7R	0.08 Max
		0.68	X7R	0.08 Max
		1.0	X7R	0.08 Max

L = 0.18" W = 0.08" ± 0.008" 1808	250	0.01	X7R	0.06 Max
		0.022	X7R	0.06 Max
		0.033	X7R	0.06 Max
		0.047	X7R	0.06 Max
		0.1	X7R	0.06 Max
		0.22	X7R	0.06 Max

L = 0.220" W = 0.250" 2225	250	0.47	X7R	0.083
		0.68	X7R	0.083
		0.82	X7R	0.083
		1.0	X7R	0.083
		1.20	X7R	0.083

