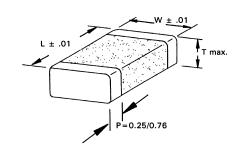
# Tecate Group MULTILAYER CERAMIC TIP & RING APPLICATIONS

#### **FEATURES**

- Telco Capacitor. This type exclusively for Tip & Ring and ring detection circuts as STD Telecom filter to block -48VDC telephone line voltage and pass subscribers AC signal (15Hz ~ 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	1	105	K	Х	1825	T	F
Туре		Rated DC Voltage		Capacitance Code (pF)*	Tolerance Code	Dielectric Material**	Case Size	Package Code***	RoHs Compliant
* Capacitance	* 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)	10GΩ or 500MΩ x μF, whichever is less, measured @ rated voltage (X7R).				
Aging Rate	2.5% per decade.				

## **TIP AND RING SELECTION GUIDE**

EIA	WVDC	Сар.	T.C.	THK
		270pF		
		330pF		
		470pF		
		680pF		
		.001uF		
		.0015uF		
		.0018uF		
L = 0.079"		.0022uF	X7R	1.0 ±0.1
W = 0.049"		.0033uF		
	250	.0047uF		
± 0.012"		.0056uF		
0805		.0068uF		
		.01uF		
		.015uF		
		.022uF		
		.027uF		
		.033uF		1.25
		.039uF		±0.15
		.047uF		

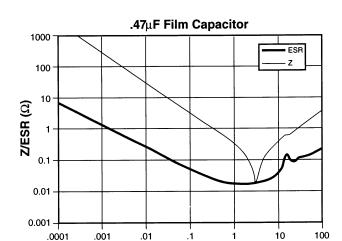
L = 0.126" W = 0.063" ± 0.012" 1206	250	180pF 220pF 270pF 330pF 470pF 680pF .001uF .0015uF .0018uF .0022uF .0033uF .0047uF .0056uF .015uF .022uF .027uF .033uF .027uF .033uF .047uF .056uF .039uF .047uF .056uF .056uF	X7R	1.0 ±0.1 1.25±0.15 1.6 ±0.2
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EIA	WVDC	Cap. uF	T.C.	THK
		.01		
		.015		
		.022		
		.027		
L = 0.126"		.033	1	
W = 0.098"		.039		4.05
	250	.047	X7R	1.25 ±0.15
± 0.008"		.056		±0.10
1210		.068	1	
		.082		
		0.10		
		0.15		
		0.22	1	

		.01		
		.015		1.25 ±0.15
		.022		
		.027		
		.033		
		.039		
		.047		
L = .177"		.056		
W = .126"		.068	. X7R	1.6 ±0.2
± 0.012"	250	.082		
1812		0.10		
1012		0.15		
		0.22		
		0.33		
		0.47		
		0.56		
		0.68		
		0.82		2±0.2
		1.0		2.4±0.2
	300	.0.47		1.6±0.2

L = .177" W = .252"	250	1.0	X7R	1.6±0.2
± 0.012"  1825	300	1.0	X/IX	2±0.2

L = 0.220"		.82		
W = 0.200"	250	1.0	X7R	2±0.2
± 0.012"		1.5		
2220		2.2		2.4±0.2



Frequency MHz

