

## FEATURES

- Unencapsulated, stacked, metallized polyphenylene sulfide (PPS) film construction, noninductive.
- Very small sizes in EIA 0603, 0805, 1206, & 1210.
- Wide temperature range (-55°C ~ +125°C).
- Reflow soldering only.
- Tape/reel package available in all sizes.
- High heat and moisture resistance.
- Stable temperature and frequency characteristics.
- Electrodes help prevent tombstoning.

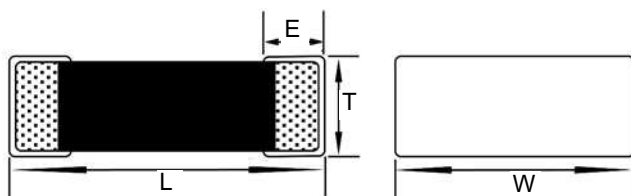
## PART NUMBERING

Part Number Example: 933X-016/102JTR0603F								
933X	-	016	/	102	J	TR	0603	F
Type		Rated DC Voltage		Capacitance Code (pF)*	Tolerance Code	Package Code**	Reel Size	RoHs Compliant
* Capacitance Code: First two digits represent significant figures, third digit represents multiplier (number of zeros).								
** Package Code: TR = Tape & Reel.								

## SPECIFICATIONS

Performance Characteristics	
Operating Temperature Range	-55°C ~ +125°C.
Voltage Range	16 & 50VDC.
Withstanding Voltage (between leads)	1.75 times rated voltage for 1 ~ 5 seconds.
Capacitance Range (20°C, 1KHz)	0.0001µF ~ 0.1µF.
Capacitance Tolerance	±2% & ±5%.
Maximum Dissipation Factor % (20°C, 1KHz)	<0.6.
Minimum Insulation Resistance (20°C) (after 1 minute minimum)	3000MΩ measured @ 10VDC for 16VDC. 3000MΩ measured @ 50VDC for 50VDC.

## DIMENSIONS (mm)

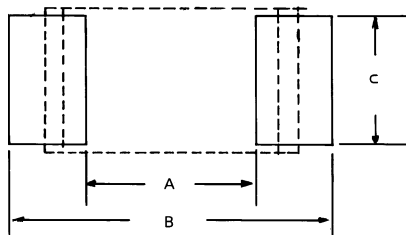


## EIA SIZE CODE

Case Code	Dimensions (mm)			
	L ± 0.2	E	W	T ± 0.2
0603	1.6	0.35 ± 0.20	0.8 ± 0.15	0.7
0805	2.0	0.45 ± 0.25	1.25 ± 0.2	0.9
0805				1.1
1206	3.2	0.65 ± 0.3	1.6 ± 0.2	0.9
1206				1.1
1206				1.5
1210	3.2	0.65 ± 0.3	2.5 ± 0.2	1.1
1210				1.5
1210				2.1

## STANDARD PRODUCTS TABLE BY EIA SIZE

EIA size	16WVDC								50WVDC					
	0603	0805		1206			1210		0805	1206		1210		
Thickness (µF)	0.7	0.9	1.1	0.9	1.1	1.5	1.5	2.1	0.9	0.9	1.1	1.1	1.5	2.1
0.00010														
0.00012														
0.00015														
0.00018														
0.00022														
0.00027														
0.00033														
0.00039														
0.00047														
0.00056														
0.00068														
0.00082														
0.0010														
0.0012														
0.0015														
0.0018														
0.0022														
0.0027														
0.0033														
0.0039														
0.0047														
0.0056														
0.0068														
0.0082														
0.010														
0.012														
0.015														
0.018														
0.022														
0.027														
0.033														
0.039														
0.047														
0.056														
0.068														
0.082														
0.10														



## RECOMMENDED LAND PATTERN DIMENSIONS (mm)

Case Code	A	B	C
0603	0.6	2.0	0.7
0805	0.8	2.4	1.1
1206	1.8	3.6	1.4
1210	1.8	3.6	2.3