

## FEATURES

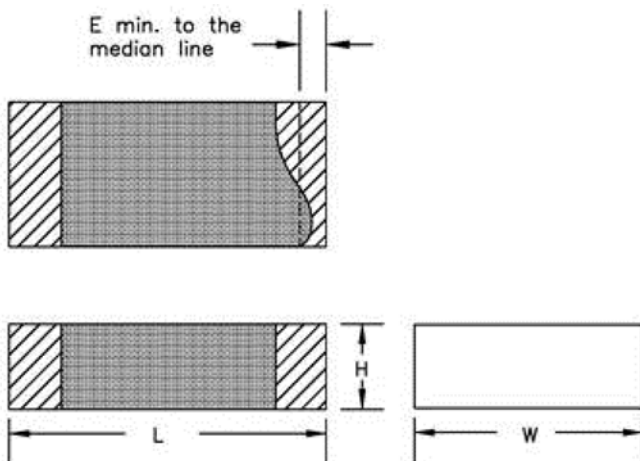
- Stacked, unencapsulated, metallized polyester, polyethylene naphthalate (PEN) film construction, non-inductive.
- Small sizes in EIA 1206, 1210, 1812, 2220, & 2824.
- Wide temperature range (-55°C ~ +125°C).
- IR or vapor phase reflow soldering compatible.
- Tape/reel package available in all sizes.
- High heat and moisture resistance.
- Stable temperature, frequency and bias characteristics.
- Excellent thermal shock resistance.

## PART NUMBERING

Part Number Example: 932AF-100/105JTR2220F								
932AF	-	100	/	104	J	TR	1812	F
Type		Rated DC Voltage		Capacitance Code (pF)*	Tolerance Code	Package Code**	Case 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 with voltage derating of 1.25%/°C between 105°C & 125°C.
Voltage Range	25VDC to 630VDC.
Withstanding Voltage (between leads) (20°C)	1.4 times rated voltage for 2 seconds.
Capacitance Range (20°C, 1KHz)	0.001µF ~ 4.7µF.
Capacitance Tolerance	±5% & ±10%.
Maximum Dissipation Factor % (20°C, 1KHz)	<1.0.
Minimum Insulation Resistance (20°C) (after 1 minute minimum)	>1000MΩ measured @ 10VDC for WVDC < 100VDC & measured @ 100VDC for WVDC ≥ 100VDC (C ≤ 0.33µF). 400 seconds measured @ 10VDC for WVDC < 100VDC & measured @ 100VDC for WVDC ≥ 100VDC (C > 0.33µF).



## SIZE (mm)

Case Code	Dimensions		
	L	E	W
1206	3.2 ± 0.50	0.2	1.6 ± 0.50
1210	3.2 ± 0.50	0.2	2.5 ± 0.50
1812	4.5 ± 0.50	0.2	3.2 ± 0.50
2220	5.7 ± 0.50	0.2	5.0 ± 0.50
2824	7.1 ± 0.50	0.2	6.1 ± 0.50
4130	10.5 ± 0.50	0.2	7.6 ± 0.50
5040	12.8 ± 0.50	0.2	10.2 ± 0.50
6054	15.3 ± 0.50	0.2	13.7 ± 0.50

## STANDARD PRODUCTS TABLE BY EIA SIZE

Cap. ( $\mu$ F)	Cap. Code	25VDC / 16VAC	50VDC / 40VAC	63VDC / 63VAC
		EIA Size / T Max.	EIA Size / T Max.	EIA Size / T Max.
0.001	102	1206 / 1.15	1206 / 1.15	1812 / 1.9
0.0012	122	1206 / 1.15	1206 / 1.15	1812 / 1.9
0.0015	152	1206 / 1.15	1206 / 1.15	1812 / 1.9
0.0018	182	1206 / 1.15	1206 / 1.15	1812 / 1.9
0.0022	222	1206 / 1.15	1206 / 1.15	1812 / 1.9
0.0027	272	1206 / 1.15	1206 / 1.15	1812 / 1.9
0.0033	332	1206 / 1.15	1206 / 1.15	1812 / 1.9
0.0047	472	1206 / 1.15	1206 / 1.15	1812 / 2.0
0.0056	562	1206 / 1.15	1206 / 1.15	1812 / 1.9
0.0068	682	1206 / 1.15	1206 / 1.15	1812 / 2.0
0.0082	822	1206 / 1.15	1206 / 1.15	1812 / 1.9
0.01	103	1206 / 1.15	1206 / 1.15	1812 / 2.0
0.012	123	1206 / 1.15	1206 / 1.15	1812 / 2.0
0.015	153	1206 / 1.15	1206 / 1.15	1812 / 2.4
0.018	183	1206 / 1.15	1206 / 1.15	1812 / 2.5
0.022	223	1206 / 1.15	1206 / 1.15	1812 / 2.0
0.027	273	1210 / 1.8	1210 / 1.8	1812 / 1.9
0.033	333	1210 / 1.8	1210 / 1.8	1812 / 2.0
0.047	473	1210 / 1.8	1210 / 1.8	1812 / 2.7
0.056	563	1210 / 1.8	1210 / 1.8	1812 / 2.3
0.068	683	1210 / 1.8	1210 / 1.8	1812 / 2.0
0.082	823	1210 / 2.2	1210 / 2.2	1812 / 2.5
0.10	104	1210 / 2.3	1210 / 2.3	1812 / 2.8
0.12	124			1812 / 2.3
0.15	154			1812 / 2.0
0.18	184			1812 / 2.4
0.22	224			1812 / 3.0
0.33	334			2220 / 4.0
0.47	474			2220 / 4.0
0.56	564			2220 / 3.3
0.68	684			2220 / 3.9
0.82	824			2824 / 4.4
1.0	105			2824 / 5.0
1.5	155			2824 / 5.2
2.2	225			4130 / 6.1
2.7	275			5040 / 6.7
3.3	335			6054 / 5.3
4.7	475			6054 / 7.2

## STANDARD PRODUCTS TABLE BY EIA SIZE

Cap. ( $\mu$ F)	Cap. Code	100VDC / 63VAC	250VDC / 160VAC	400VDC / 200VAC	630VDC / 250VAC
		EIA Size / T Max.	EIA Size / T Max.	EIA Size / T Max.	EIA Size / T Max.
0.001	102	1206 / 1.15	1812 / 2.0	1812 / 2.0	1812 / 2.0
0.0012	122	1206 / 1.15	1812 / 2.0	1812 / 2.0	1812 / 2.0
0.0015	152	1206 / 1.15	1812 / 2.0	1812 / 2.0	1812 / 2.0
0.0018	182	1206 / 1.15	1812 / 2.0	1812 / 2.0	1812 / 2.0
0.0022	222	1206 / 1.15	1812 / 2.0	1812 / 2.0	1812 / 2.0
0.0027	272	1206 / 1.15	1812 / 2.0	1812 / 2.0	1812 / 2.0
0.0033	332	1206 / 1.15	1812 / 2.0	1812 / 2.0	1812 / 2.0
0.0047	472	1206 / 1.15	1812 / 2.0	1812 / 2.0	1812 / 2.5
0.0056	562	1206 / 1.15	1812 / 2.0	1812 / 2.0	2220 / 2.0
0.0068	682	1206 / 1.15	1812 / 2.0	1812 / 2.0	2220 / 2.0
0.0082	822	1206 / 1.15	1812 / 2.0	1812 / 2.0	2220 / 2.2
0.01	103	1206 / 1.15	1812 / 2.0	2220 / 1.9	2220 / 2.4
0.012	123	1206 / 1.80	1812 / 2.0	2220 / 2.2	2220 / 3.0
0.015	153	1206 / 1.80	1812 / 2.4	2220 / 2.2	2220 / 3.4
0.018	183	1206 / 1.80	1812 / 2.5	2220 / 2.3	2220 / 4.0
0.022	223	1206 / 1.80	1812 / 2.9	2220 / 2.8	2824 / 3.4
0.027	273	1812 / 2.2	2220 / 2.6	2220 / 3.3	2824 / 4.0
0.033	333	1812 / 2.0	2220 / 2.2	2220 / 3.9	2824 / 4.8
0.047	473	1812 / 2.6	2220 / 2.9	2824 / 3.2	4130 / 4.0
0.056	563	1812 / 2.5	2220 / 3.7	2824 / 3.7	4130 / 4.6
0.068	683	1812 / 2.0	2220 / 4.0	2824 / 4.4	4130 / 5.5
0.082	823	1812 / 2.5	2220 / 4.5	4130 / 4.5	5040 / 4.5
0.10	104	1812 / 3.0	2220 / 4.5	4130 / 5.3	5040 / 5.2
0.12	124	2220 / 4.0	2824 / 3.9	4130 / 5.0	5040 / 6.0
0.15	154	2220 / 3.3	2824 / 4.7	4130 / 6.0	5040 / 6.9
0.18	184	2220 / 3.3	2824 / 5.0	5040 / 5.1	6054 / 5.6
0.22	224	2220 / 4.0	2824 / 5.7	5040 / 5.0	6054 / 6.0
0.27	227			5040 / 6.5	
0.33	334	2220 / 4.0	4130 / 6.1	6040 / 5.9	
0.39				6040 / 5.8	
0.47	474	2824 / 4.5	5040 / 5.5	6040 / 6.5	
0.56	564	2824 / 4.0	5040 / 6.0		
0.68	684	2824 / 4.5	6054 / 4.6		
0.82	824	4130 / 5.8			
1.0	105	4130 / 6.0	6054 / 6.4		
1.5	155	5040 / 5.5			
2.2	225	5040 / 6.9			
3.3	335	6054 / 7.1			