

## FEATURES

- Unencapsulated stacked metallized high temperature polyethylene terephthalate (PET-HT) film construction, non-inductive.
- High CV, small sizes in EIA 2220, 2824, 4030, 5040, & 6054.
- Wide temperature range (-55°C ~ +125°C).
- IR or vapor reflow compatible soldering.
- Tape/reel package available in all sizes.
- High heat and moisture resistance.
- Stable temperature, frequency and bias characteristics.
- Excellent thermal shock resistance.
- No piezoelectric effect.

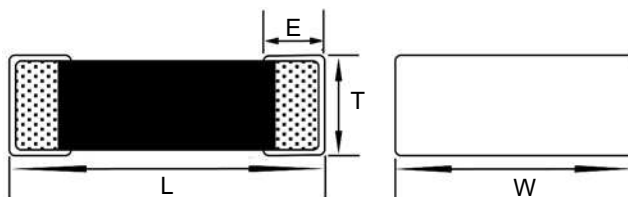
## PART NUMBERING

Part Number Example: 931AF-100/105JTR2220F								
931AF	-	100	/	105	J	TR	2824	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	63VDC to 630VDC.
Withstanding Voltage (between leads) (20°C)	1.4 times rated voltage for 2 seconds.
Capacitance Range (20°C, 1KHz)	0.01µF ~ 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 ± 0.012	W
2220	5.7 ± 0.50	0.8	5.0 ± 0.50
2824	7.1 ± 0.50	0.8	6.1 ± 0.50
4030	10.2 ± 0.60	0.8	7.6 ± 0.80
5040	12.7 ± 0.60	0.8	10.2 ± 0.80
6054	15.2 ± 0.60	0.8	13.7 ± 0.80

STANDARD PRODUCTS TABLE BY EIA SIZE

Cap. ( $\mu$ F)	Cap. Code	63VDC / 40VAC	100VDC / 63VAC	250VDC / 160VAC	400VDC / 200VAC	630VDC / 250VAC
		EIA Size / T Max.	EIA Size / T Max.	EIA Size / T Max.	EIA Size / T Max.	EIA Size / T Max.
0.010	103				2220 / 3.0	2220 / 2.8
0.012	123				2220 / 2.4	2220 / 3.3
0.015	153				2220 / 4.0	2220 / 4.0
0.018	183				2824 / 2.8	2824 / 2.8
0.022	223				2824 / 3.5	2824 / 3.5
0.027	273				2824 / 2.8	2824 / 4.1
0.033	333				2824 / 3.3	2824 / 5.0
0.047	473			2220 / 3.0	2824 / 4.5	4030 / 3.6
0.056	563			2220 / 3.6	4030 / 3.1	4030 / 4.3
0.068	683			2220 / 4.0	4030 / 3.6	4030 / 5.2
0.082	823			2220 / 4.0	4030 / 4.2	5040 / 4.3
0.10	104			2220 / 4.0	4030 / 4.7	5040 / 5.0
0.12	124			2824 / 4.3	5040 / 3.9	5040 / 5.6
0.15	154			2824 / 4.3	5040 / 4.6	5040 / 6.9
0.18	184		2220 / 2.3	2824 / 5.1	5040 / 5.6	6054 / 5.0
0.22	224		2220 / 3.3	2824 / 4.9	5040 / 6.8	6054 / 5.8
0.27	273	2220 / 2.8	2220 / 3.4	4030 / 4.8	5040 / 6.8	6054 / 7.2
0.33	334	2220 / 3.3	2220 / 4.0	4030 / 5.6	6054 / 5.6	
0.39	394	2220 / 3.4	2220 / 3.9	4030 / 5.4		
0.47	474	2220 / 3.5	2220 / 4.3	4030 / 6.15	6054 / 6.2	
0.56	564	2220 / 3.5	2824 / 4.2	5040 / 5.6		
0.68	684	2220 / 4.0	2824 / 5.0	5040 / 6.5		
0.82	824	2824 / 3.7	2824 / 4.7	6054 / 5.1		
1.0	105	2824 / 3.7	2824 / 5.7	6054 / 6.0		
1.5	155	2824 / 5.8	4030 / 6.1	6054 / 7.0		
2.2	225	4030 / 5.8	5040 / 5.5			
3.3	335	5040 / 5.5	6054 / 5.2			
4.7	475	6054 / 4.9	6054 / 7.1			