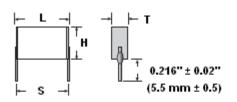
### **Type RA Radial PET Film Capacitors**



The RA style capacitor is constructed in an efficient rugged selfencased size. The non-inductive multilayer metallized polyester film capacitor features a small size, high dv/dt capability, very low ESR at high frequency and a self-healing capability. RA type capacitors are ideal for use in high frequency switching power supplies, noise suppression, EMI reduction and long-life applications.

Specifications	Highlights - Efficient size - Self healing - Low ESR/ESL - High dv/dt - Wave solderable					
Capacitance Range (at 1 kHz)	0.1 to 10 μF					
Capacitance Tolerance	Standard Tolerance $\pm 10\%$ (K), Optional $\pm 5\%$ (J) or $\pm 20\%$ (M)					
Rated Voltage	100, 250, 400, 500 Vdc					
Operating Temperature Range	–55 ℃ to 125 ℃					
Dissipation Factor (at 1 kHZ/25 °C)	≤1.0%					
Insulation Resistance	≥1,000 M $\Omega$ x µF - Need not exceed 1,000 M $\Omega$					
	Test Voltage for 100 Vdc rating: 10 Vdc					
	Test Voltage for >100 Vdc rating : 100 Vdc					
Dielectric Strength	1.6 x rated VDC for 2 seconds max.					
	Bold P.N.: 1.3 x rated VDC for 2 seconds max.					
Self Inductance (typical)	2 to 6 nH					
Temperature Range	-55° to +125°C at Rated DC Voltage					
	Bold P.N.: -55° to +125°C					
	(derate voltage 1.25% / °C above +85°C)					
Life Test:	Apply 1.25 x the rated DC voltage for 1000 hours at +85°C.					
	After the test, the capacitance, DF, and IR should meet the following:					
	Capacitance change: $\leq 5.0\%$					
	DF will meet the initial specification					
	Insulation Resistance will meet the initial specification					
Moisture Test:	Subject the capacitor to +85°C / 85% RH for 21 days without voltage.					
	After the test, the capacitance, DF, and IR should meet the following:					
	Capacitance change: ≤ 7.0%					
	DF will meet the initial specification					
	Insulation Resistance $\geq$ 30% of the initial limit					
Long Term Stability :	After 2 years of storage in a standard environment.					
, , , , , , , , , , , , , , , , , , ,	Capacitance change: ≤2.0%					
Vibration	Mil Std 202 Method 204D					
Solder Resistance	260°C, 5 sec.					
	Capacitance change: $\leq 2.0\%$					
Regul	atory Information					

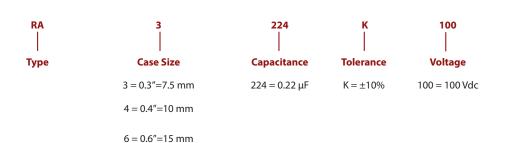
#### **Outline Drawing**



### Type RA Radial PET Film Capacitors Ratings

Catalog ( Part Number		Dimensions (in.)				Dimensions (mm)						
	Capacitance (uF)	L Max.	T Max.	H Max.	S ± 0.02	d	L Max.	T Max.	H Max.	S ± 0.5	d	Max. dv/dt (V/us)
	· · · · ·		•	1	00 Vdc / 80	Vac	•			•	•	•
RA3224K100-FA	0.22	0.350	0.155	0.280	0.295	0.025	8.9	3.9	7.1	7.5	0.6	75
RA3474K100-FA	0.47	0.350	0.180	0.305	0.295	0.025	8.9	4.6	7.7	7.5	0.6	65
RA4105K100-FA	1.0	0.450	0.175	0.285	0.394	0.025	11.4	4.4	7.2	10	0.6	35
RA3225K100-FA	2.2	0.350	0.250	0.350	0.295	0.025	8.9	6.3	8.9	7.5	0.6	25
RA4225K100-FA	2.2	0.450	0.205	0.285	0.394	0.025	11.4	5.2	7.2	10	0.6	25
RA4335K100-FA	3.3	0.450	0.250	0.350	0.394	0.025	11.4	6.3	8.9	10	0.6	25
RA4405K100-FA	4.0	0.450	0.200	0.380	0.394	0.032	11.4	5.1	9.7	10	0.8	20
RA4505K100-FA	5.0	0.450	0.220	0.480	0.394	0.032	11.4	5.6	12.2	10	0.8	20
RA6106K100-FA	10.0	0.650	0.260	0.460	0.591	0.032	16.5	6.6	11.7	15	0.8	13
				2!	50 Vdc / 16	0 Vac						
RA4104K250-FA	0.10	0.450	0.160	0.255	0.394	0.025	11.4	4.1	6.5	10	0.6	100
RA4224K250-FA	0.22	0.450	0.190	0.305	0.394	0.025	11.4	4.8	7.7	10	0.6	75
RA4334K250-FA	0.33	0.450	0.250	0.330	0.394	0.025	11.4	6.3	8.4	10	0.6	75
RA4474K250-FA	0.47	0.450	0.210	0.305	0.394	0.025	11.4	5.3	7.7	10	0.6	55
RA6474K250-FA	0.47	0.650	0.230	0.340	0.591	0.032	16.5	5.8	8.6	15	0.8	50
RA6105K250-FA	1.0	0.650	0.240	0.340	0.591	0.032	16.5	6.1	8.6	15	0.8	35
				40	00 Vdc / 25	0 Vac						
RA6224K400-FA	0.22	0.650	0.230	0.340	0.591	0.032	16.5	5.8	8.6	15	0.8	65
RA6474K400-FA	0.47	0.650	0.290	0.440	0.591	0.032	16.5	7.4	11.1	15	0.8	120
				50	00 Vdc / 25	0 Vac						
RA6504K500-FA	0.5	0.650	0.280	0.540	0.591	0.032	16.5	7.1	13.7	15	0.8	120

#### **Part Numbering System**

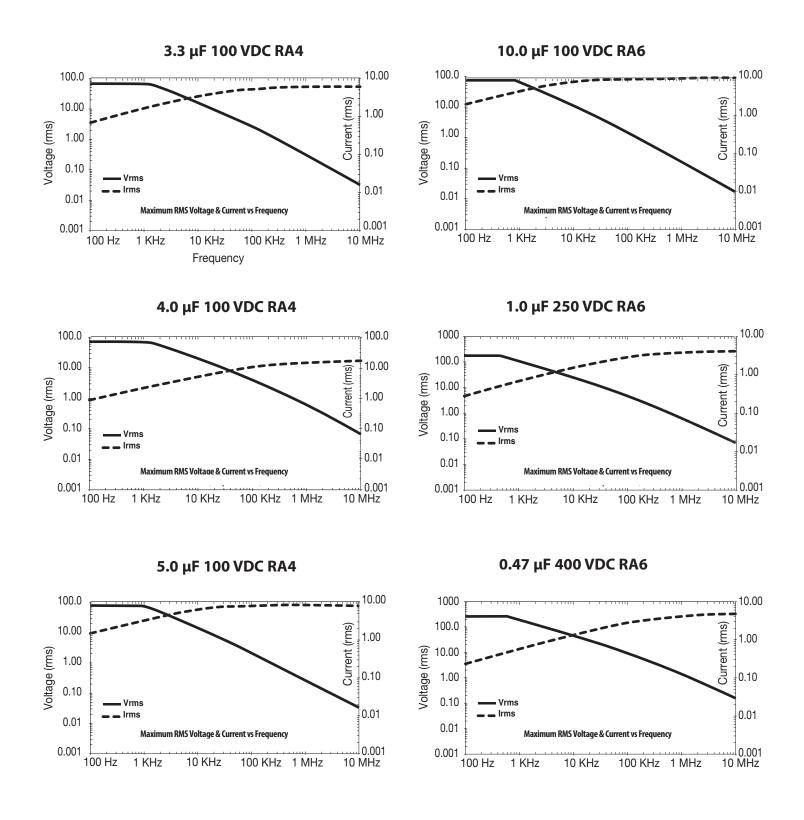


**RoHS** -FA = 10/10 Compliant w Sn plated wire leads (Blank = 9/10 compliant w SnPb wire lead finish)

-FA

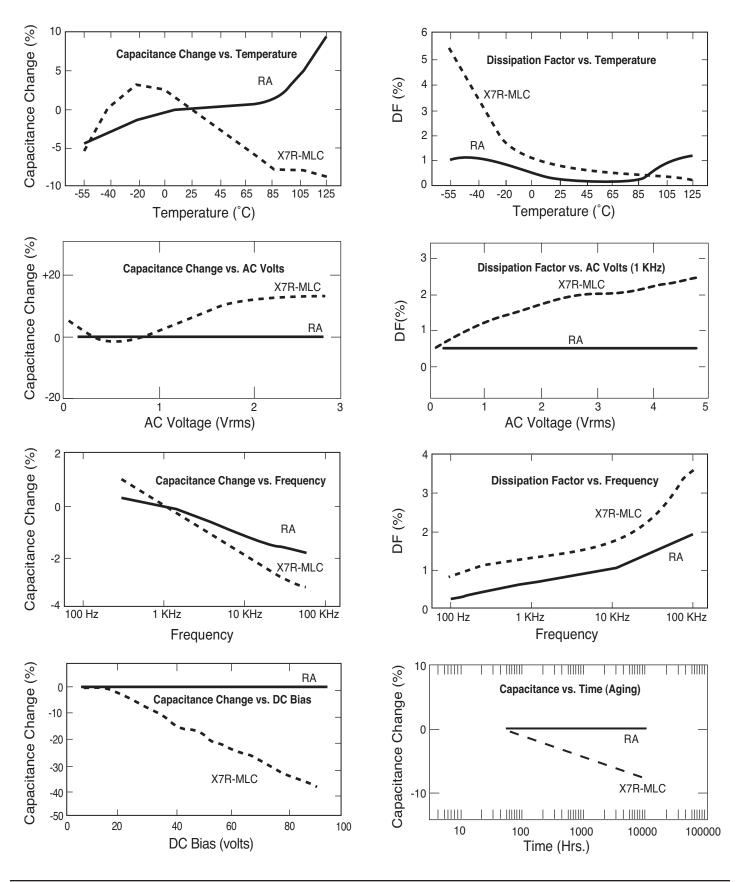
# **Type RA Radial PET Film Capacitors**

#### **Typical Performance Curves**



# **Type RA Radial PET Film Capacitors**

### **Typical Performance Curves**



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