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.

Highlights								
- Efficient size								
- Jow FSR/FSI								
- High dv/dt								
- Wave solderable								
0.1 to 10 μF								
Standard Tolerance $\pm 10\%$ (K), Optional $\pm 5\%$ (J) or $\pm 20\%$ (M)								
100, 250, 400, 500 Vdc								
–55 °C to 125 °C								
≤1.0%								
≥1,000 M Ω x µF - Need not exceed 1,000 M Ω								
Test Voltage for 100 Vdc rating: 10 Vdc								
Test Voltage for >100 Vdc rating : 100 Vdc								
1.6 x rated VDC for 2 seconds max.								
Bold P.N.: 1.3 x rated VDC for 2 seconds max.								
2 to 6 nH								
-55° to +125°C at Rated DC Voltage								
Bold P.N.: -55° to +125°C								
(derate voltage 1.25% / °C above +85°C)								
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								
Subject the capacitor to $+85^{\circ}$ C / 85% RH for 21 days without voltage.								
After the test, the capacitance, DF, and IR should meet the following:								
Capacitance change: \leq 7.0%								
DF will meet the initial specification								
Insulation Resistance \ge 30% of the initial limit								
After 2 years of storage in a standard environment.								
Capacitance change: ≤2.0%								
Mil Std 202 Method 204D								
260°C, 5 sec.								
Capacitance change: $\leq 2.0\%$								
RoHS Compliant								

Outline Drawing



Type RA Radial PET Film Capacitors Ratings

Catalog Part Number	Capacitance (uF)	Dimensions (in.)				Dimensions (mm)					Max du/dt		
		L Max.	T Max.	H Max.	S ± 0.02	d	L Max.	T Max.	H Max.	S ± 0.5	d	(V/us)	
100 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	
250 Vdc / 160 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	
400 Vdc / 250 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	
	500 Vdc / 250 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





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

Typical Performance Curves



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Typical Performance Curves



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