Type RA Angstor® Radial PET Film Capacitors



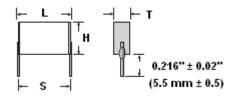
The RA style capacitor is constructed in an efficient rugged selfencased size. The non-inductive multilayer metallized polyester film capacitor features a small size, high dv/dt capability, very low ESR at high frequency and a self-healing capability. RA type capacitors are ideal for use in high frequency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

Highlights

- Efficient size
- Self healing
- Low ESR/ESL
- High dv/dt

Specifications	- High dv/dt - Wave solderable						
Capacitance Range (at 1 kHz)	0.1 to 10 μF						
Capacitance Tolerance	Standard Tolerance ±10% (K), Optional ±5% (J) or ±20% (M)						
Rated Voltage	100, 250, 400, 500 Vdc						
Operating Temperature Range	-55 °C to 125 °C						
Dissipation Factor (at 1 kHZ/25 °C)	≤1.0%						
Insulation Resistance	≥1,000 MΩ x μF - Need not exceed 1,000 MΩ						
	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: ≤ 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 ≥ 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: ≤ 2.0%						

Outline Drawing



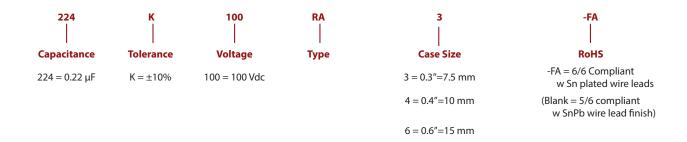
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Ratings

Catalog Part Number	Capacitance (uF)	Dimensions (in.)				Dimensions (mm)					Mary devote	
		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)
100 Vdc / 80 Vac												
224K100RA3-FA	0.22	0.350	0.155	0.280	0.295	0.025	8.9	3.9	7.1	7.5	0.6	75
474K100RA3-FA	0.47	0.350	0.180	0.305	0.295	0.025	8.9	4.6	7.7	7.5	0.6	65
105K100RA4-FA	1.0	0.450	0.175	0.285	0.394	0.025	11.4	4.4	7.2	10	0.6	35
225K100RA3-FA	2.2	0.350	0.250	0.350	0.295	0.025	8.9	6.3	8.9	7.5	0.6	25
225K100RA4-FA	2.2	0.450	0.205	0.285	0.394	0.025	11.4	5.2	7.2	10	0.6	25
335K100RA4-FA	3.3	0.450	0.250	0.350	0.394	0.025	11.4	6.3	8.9	10	0.6	25
405K100RA4-FA	4.0	0.450	0.200	0.380	0.394	0.032	11.4	5.1	9.7	10	8.0	20
505K100RA4-FA	5.0	0.450	0.220	0.480	0.394	0.032	11.4	5.6	12.2	10	8.0	20
106K100RA6-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												
104K250RA4-FA	0.10	0.450	0.160	0.255	0.394	0.025	11.4	4.1	6.5	10	0.6	100
224K250RA4-FA	0.22	0.450	0.190	0.305	0.394	0.025	11.4	4.8	7.7	10	0.6	75
334K250RA4-FA	0.33	0.450	0.250	0.330	0.394	0.025	11.4	6.3	8.4	10	0.6	75
474K250RA4-FA	0.47	0.450	0.210	0.305	0.394	0.025	11.4	5.3	7.7	10	0.6	55
474K250RA6-FA	0.47	0.650	0.230	0.340	0.591	0.032	16.5	5.8	8.6	15	8.0	50
105K250RA6-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											
224K400RA6-FA	0.22	0.650	0.230	0.340	0.591	0.032	16.5	5.8	8.6	15	0.8	65
474K400RA6-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											
504K500RA6-FA	0.5	0.650	0.280	0.540	0.591	0.032	16.5	7.1	13.7	15	0.8	120

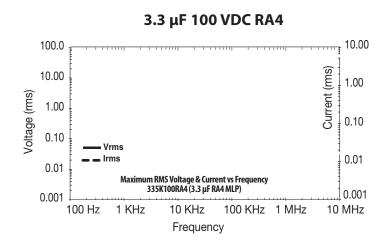
Part numbers highlighted in yellow are stocked

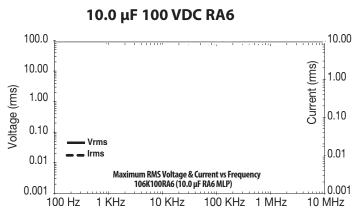
Part Numbering System

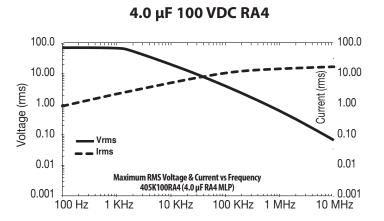


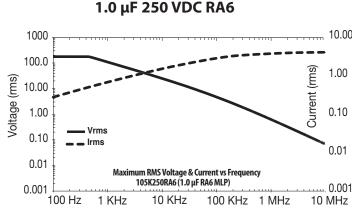
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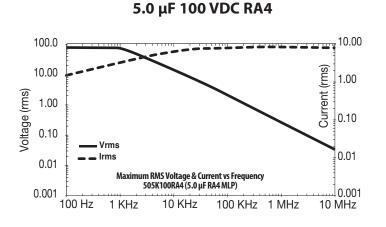
Typical Performance Curves

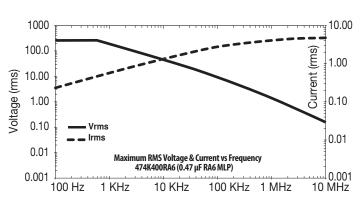












0.47 µF 400 VDC RA6

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