

Type 936 Axial Leaded Metallized Polypropylene Capacitor

High Current Flat Axial Leaded Capacitors



Type 936 flat axial leaded metallized polypropylene capacitors are designed for 20 to 100 kHz switching power supply input filtering, DC blocking and output filter applications where high current, high capacitance and low ESR values are important. Dry sections are sealed with flame retardant outer wrap and epoxy end seals for moisture resistance.

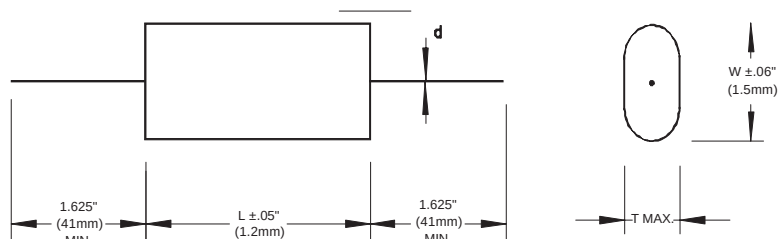
Highlights

- Low ESR
- High current
- Flame retardant outer wrap and end seals

Specifications

Capacitance Range	4.7 to 10.0 μ F
Capacitance Tolerance	$\pm 10\%$ (K) Standard; $\pm 5\%$ (J) Optional
Rated Voltage	400 to 600 Vdc (250 to 330 Vac, 60 Hz)
Operating Temperature Range	-55 °C to 105 °C* *Full rated voltage at 85 °C - derated linearly to 50% rated at 105 °C
Dielectric Strength	200% of rated voltage for 1 minute
Dissipation Factor	> 0.10% Max (25 °C, 1 kHz)
Insulation Resistance	200,000 M Ω x μ F
Life Test	2,000 h @ 85 °C, 125% rated DC voltage
RoHS Compliant	

Outline Drawing



Ratings

Cap. (μ F)	Catalog Part Number	T Maximum Inches (mm)	W ± 0.06 " (1.5) Inches (mm)	L ± 0.05 " (1.2) Inches (mm)	d Inches (mm)	ESR (milliohms) 100 KHz	IRMS A @ 70°C 100 KHz
400 Vdc (250 Vac)							
.47	936C4P47K-F	0.280 (7.1)	0.470 (11.9)	1.250 (31.75)	0.032 (0.8)	21	4
.68	936C4P68K-F	0.300 (7.6)	0.530 (13.5)	1.250 (31.75)	0.032 (0.8)	13	6
1.0	936C4W1K-F	0.390 (9.9)	0.590 (15.0)	1.250 (31.75)	0.032 (0.8)	11	9
1.5	936C4W1P5K-F	0.480 (12.2)	0.690 (17.5)	1.250 (31.75)	0.032 (0.8)	9	10
2.0	936C4W2K-F	0.480 (12.2)	0.690 (17.5)	1.250 (31.75)	0.032 (0.8)	9	10
2.2	936C4W2P2K-F	0.560 (14.2)	0.830 (21.1)	1.250 (31.75)	0.032 (0.8)	8	11
3.3	936C4W3P3K-F	0.690 (17.5)	0.930 (23.6)	1.250 (31.75)	0.032 (0.8)	7	15
4.7	936C4W4P7K-F	0.640 (16.3)	0.880 (22.4)	1.750 (44.45)	0.040 (1.0)	7	17
6.8	936C4W6P8K-F	0.670 (17.0)	0.900 (22.9)	2.250 (57.15)	0.040 (1.0)	7	17
10.0	936C4W10K-F	0.700 (17.8)	1.050 (26.7)	2.250 (57.15)	0.040 (1.0)	7	17
600 Vdc (330 Vac)							
0.47	936C6P47K-F	0.460 (11.7)	0.690 (17.5)	1.250 (31.75)	0.032 (0.8)	13	4
0.68	936C6P68K-F	0.550 (14.0)	0.790 (20.1)	1.250 (31.75)	0.032 (0.8)	10	6
1.0	936C6W1K-F	0.670 (17.0)	0.910 (23.1)	1.250 (31.75)	0.032 (0.8)	8	9
1.5	936C6W1P5K-F	0.730 (18.5)	0.970 (24.6)	1.500 (38.10)	0.032 (0.8)	7	11
2.2	936C6W2P2K-F	0.640 (16.3)	0.880 (22.4)	2.250 (57.15)	0.040 (1.0)	10	13

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Part Numbering System

936	C	6	P	22	K	-F
Series	Termination Code	Voltage Code	Capacitance Decimal Point	Capacitance Significant figures in μF	Tolerance Code	RoHS Compliant Indicator
936	C = Tinned Copper Wire	6 = 600 Vdc	S = 0.0		K = $\pm 10\%$	
	F = Insulated Stranded Wire	8 = 800 Vdc	P = 0.		J = $\pm 5\%$	
	H = Tinned Lugs	10 = 1000 Vdc	W = No decimal point			
		12 = 1200 Vdc				
		16 = 1600 Vdc				
		20 = 2000 Vdc				
		30 = 3000 Vdc				

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