

# 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

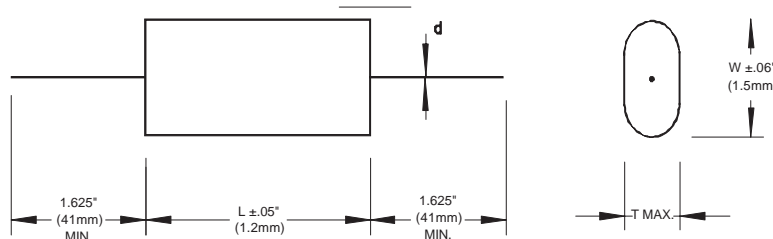
- Low ESR
- High current
- Flame retardant outer wrap and end seals

### Specifications

Capacitance Range	4.7 to 10.0 $\mu$ 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 $\Omega$ x $\mu$ F
Life Test	2,000 h @ 85 °C, 125% rated DC voltage

[RoHS Compliant](#)

### Outline Drawing



### Ratings

Cap. ( $\mu$ F)	Catalog Part Number	T Maximum Inches (mm)	W $\pm 0.06$ " (1.5) Inches (mm)	L $\pm 0.05$ " (1.2) Inches (mm)	d Inches (mm)	ESR (milliohms) 100 KHz	IRMS A @ 70°C 100 KHz
<b>400 Vdc (250 Vac)</b>							
.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
<b>600 Vdc (330 Vac)</b>							
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

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

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