

# Type 936C Axial Leaded Metallized Polypropylene Capacitor

## High Current Flat Axial Leaded Capacitors



Type 936C flat axial lead 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

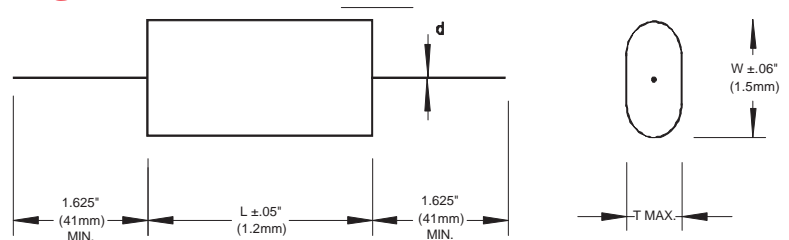
### Specifications

<b>Capacitance Range:</b>	0.47 to 10.0 $\mu$ F
<b>Voltage Range:</b>	400 to 600 Vdc (250 to 330 Vac)
<b>Capacitance Tolerance:</b>	$\pm$ 10% Standard, $\pm$ 5% Optional
<b>Operating Temperature Range:</b>	-55 $^{\circ}$ C to 105 $^{\circ}$ C with full rated voltage at 85 $^{\circ}$ C, derate linearly to 50% of rated voltage at 105 $^{\circ}$ C
<b>Dielectric Strength:</b>	200% of rated voltage for 1 minute
<b>Dissipation Factor:</b>	0.10% Max (25 $^{\circ}$ C, 1 kHz)
<b>Insulation Resistance:</b>	200,000 M $\Omega$ x $\mu$ F
<b>Life Test:</b>	1,000 hours at 85 $^{\circ}$ C at 125% rated voltage



Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

### Outline Drawing



### Ratings

Cap. ( $\mu$ F)	Catalog Part Number	T Maximum Inches (mm)	W $\pm$ .06" (1.5) Inches (mm)	L $\pm$ .05" (1.2) Inches (mm)	d Inches (mm)	ESR (milliohms) 100 KHz	IRMS A @ 70 $^{\circ}$ 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