

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

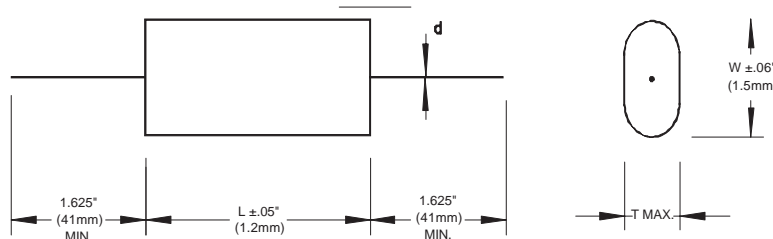
- Low ESR
- High current
- Flame retardant outer wrap and end seals

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 $^{\circ}$ C to 105 $^{\circ}$ C* *Full rated voltage at 85 $^{\circ}$ C - derated linearly to 50% rated at 105 $^{\circ}$ C |
| Dielectric Strength | 200% of rated voltage for 1 minute |
| Dissipation Factor | > 0.10% Max (25 $^{\circ}$ C, 1 kHz) |
| Insulation Resistance | 200,000 M Ω x μ F |
| Life Test | 2,000 h @ 85 $^{\circ}$ 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 $^{\circ}$ 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 Series 936 | C Termination Code C = Tinned Copper Wire F = Insulated Stranded Wire H = Tinned Lugs | 6 Voltage Code 6 = 600 Vdc 8 = 800 Vdc 10 = 1000 Vdc 12 = 1200 Vdc | P Capacitance Decimal Point S = 0.0 P = 0. W = No decimal point | 22 Capacitance Significant figures in μF | K Tolerance Code K = $\pm 10\%$ J = $\pm 5\%$ | -F RoHS Compliant Indicator |
|-----------------------------------------|----------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|---------------------------------------------------------------------------|---------------------------------------------------|

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