

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

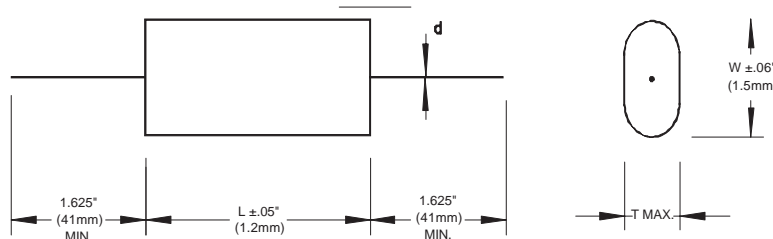
- Low ESR
- High current
- Flame retardant outer wrap and end seals

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

Regulatory Information

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

Type 936 Axial Leaded Metallized Polypropylene Capacitor

High Current Flat Axial Leaded Capacitors

Part Numbering System

936 Series	C Termination Code	6 Voltage Code	P Capacitance Decimal Point	22 Capacitance Significant figures in μF	K Tolerance Code	-F RoHS Compliant Indicator
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 = $\pm 5\%$	

Notice and Disclaimer: All product drawings, descriptions, specifications, statements, information and data (collectively, the "Information") in this datasheet or other publication are subject to change. The customer is responsible for checking, confirming and verifying the extent to which the Information contained in this datasheet or other publication is applicable to an order at the time the order is placed. All Information given herein is believed to be accurate and reliable, but it is presented without any guarantee, warranty, representation or responsibility of any kind, expressed or implied. Statements of suitability for certain applications are based on the knowledge that the Cornell Dubilier company providing such statements ("Cornell Dubilier") has of operating conditions that such Cornell Dubilier company regards as typical for such applications, but are not intended to constitute any guarantee, warranty or representation regarding any such matter – and Cornell Dubilier specifically and expressly disclaims any guarantee, warranty or representation concerning the suitability for a specific customer application, use, storage, transportation, or operating environment. The Information is intended for use only by customers who have the requisite experience and capability to determine the correct products for their application. Any technical advice inferred from this Information or otherwise provided by Cornell Dubilier with reference to the use of any Cornell Dubilier products is given gratis (unless otherwise specified by Cornell Dubilier), and Cornell Dubilier assumes no obligation or liability for the advice given or results obtained. Although Cornell Dubilier strives to apply the most stringent quality and safety standards regarding the design and manufacturing of its products, in light of the current state of the art, isolated component failures may still occur. Accordingly, customer applications which require a high degree of reliability or safety should employ suitable designs or other safeguards (such as installation of protective circuitry or redundancies or other appropriate protective measures) in order to ensure that the failure of an electrical component does not result in a risk of personal injury or property damage. Although all product-related warnings, cautions and notes must be observed, the customer should not assume that all safety measures are indicated in such warnings, cautions and notes, or that other safety measures may not be required.