Type 936 Axial Leaded Metallized Polypropylene Capacitor

High Current Flat Axial Leaded Capacitors

Type 936 flat axial leaded meltallized 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 retandant outer wrap and epoxy end seals for moisture resistance.

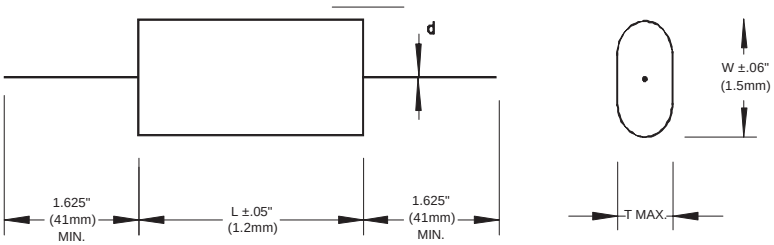
Highlights

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

Specifications

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

Outline Drawing



Ratings

Cap. (µF)	Catalog Part Number	T Maximum Inches (mm)	W ±.06" (1.5) Inches (mm)	L ±.05" (1.2) Inches (mm)	d Inches (mm)	ESR (milliohms) 100 KHz	IRMS A @ 70ºC 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	16 = 1600 Vdc	S = 0.0		K = ±10%	
	F = Insulated Stranded	8 = 800 Vdc	20 = 2000 Vdc	P = 0.		J = ±5%	
	Wire	10 = 1000 Vdc	30 = 3000 Vdc	W = No decimal			
	H = Tinned Lugs	12 = 1200 Vdc		point			