Type 935 Polypropylene Film Capacitors

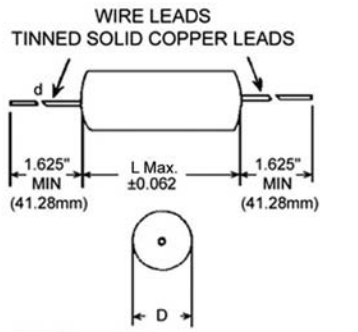
Metallized Axial Leads

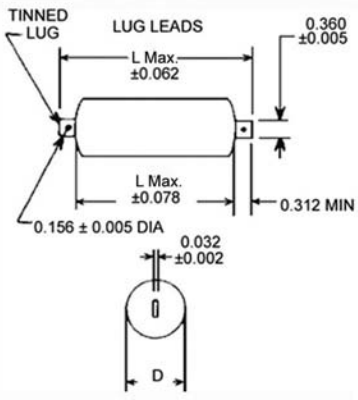
Power Supplies High Current Circuits

Type 935 axial-leaded, metallized polypropylene capacitors are designed for 20-100 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. This non-protected film capacitor has Underwriters Laboratories, Inc. recognition for construction only. U.L. File Number assigned is E128034(N).

Specifications

Voltage Range: 100-400 Vdc (70-275 Vac, 60 Hz)
Capacitance Range: 1-30 µF
Capacitance Tolerance: ±10% (K) standard
±5% (J) optional
Operating Temperature Range: -55°C to 105°C*
Dielectric Strength: 200% (1 minute)
Dissipation Factor: .10% Max. (25°C, 1kHz)
Insulation Resistance: 200,000 M. x µF
Life Test: 1,000 Hours at 85°C at 125% Rated Voltage
*Full-rated voltage at 85°C–Derate linearly to 50%-rated voltage at 105°C





Ratings and Dimensions — Normally Stocked

Cap. (µF)	Catalog Part Number	D - D± Inches	D - D± (mm)	L Max. Inches	L Max. (mm)	d Inches	d (mm)	Max ESR (milliohms) 20-100 kHz	dV/dt V/µs	Maximum Ripple Current (Amps RMS) 20-100 kHz Case Temperature +25°C	+35°C	+45°C	+55°C	+65°C	+75°C	+85°C
With Wire Leads								100 Vdc (70 Vac)								
1	935C1W1K	0.469 ± 0.062	(11.9) ± (1.6)	0.750	(19.0)	0.032	(0.8)	15	25	9.2	8.5	7.8	7.0	6.0	4.9	4.5
2	935C1W2K	0.534 ± 0.062	(13.6) ± (1.6)	0.938	(23.8)	0.032	(0.8)	12	16	10.8	10.0	9.1	8.2	7.0	5.8	5.3
3	935C1W3K	0.624 ± 0.093	(15.8) ± (2.4)	0.938	(23.8)	0.040	(1.0)	11	16	12.1	11.2	10.3	9.2	8.0	6.5	5.9
5	935C1W5K	0.640 ± 0.093	(16.3) ± (2.4)	1.250	(31.7)	0.040	(1.0)	10	10	13.8	12.7	11.6	10.4	9.0	7.4	6.7
10	935C1W10K	0.805 ± 0.093	(20.4) ± (2.4)	1.500	(38.1)	0.040	(1.0)	9	8	15.0	15.0	14.2	12.7	11.0	9.0	8.2
20	935C1W20K	0.875 ± 0.125	(22.2) ± (3.2)	2.250	(57.1)	0.040	(1.0)	8	5	15.0	15.0	15.0	15.0	13.6	11.1	10.0
30	935C1W30K	1.075 ± 0.125	(27.3) ± (3.2)	2.250	(57.1)	0.040	(1.0)	6	5	15.0	15.0	15.0	15.0	15.0	12.4	11.4

Cap. (µF)	Catalog Part Number	D - D± Inches	D - D± (mm)	L Max. Inches	L Max. (mm)	d Inches	d (mm)	Max ESR (milliohms) 20-100 kHz	dV/dt V/µs	Maximum Ripple Current (Amps RMS) 20-100 kHz Case Temperature +25°C	+35°C	+45°C	+55°C	+65°C	+75°C	+85°C
With Wire Leads								**200 Vdc (140 Vac)**								
1	935C2W1K	0.450 ± 0.062	(11.4) ± (1.6)	1.250	(31.7)	0.032	(0.8)	20	15	7.3	7.3	7.3	7.3	7.2	5.9	5.4
2	935C2W2K	0.605 ± 0.093	(15.4) ± (2.4)	1.250	(31.7)	0.032	(0.8)	15	15	12.0	12.0	11.3	10.1	8.7	7.1	6.5
3	935C2W3K	0.654 ± 0.093	(16.6) ± (2.4)	1.500	(38.1)	0.040	(1.0)	13	12	15.0	13.8	12.6	11.3	9.8	8.0	7.3
5	935C2W5K	0.769 ± 0.093	(19.5) ± (2.4)	1.750	(44.4)	0.040	(1.0)	11	9	15.0	15.0	14.7	13.1	11.4	9.3	8.5
10	935C2W10K	0.905 ± 0.125	(23.0) ± (3.2)	2.250	(57.1)	0.040	(1.0)	9	7	15.0	15.0	15.0	15.0	13.8	11.3	10.3
20	935C2W20K	1.315 ± 0.125	(33.4) ± (3.2)	2.250	(57.1)	0.040	(1.0)	6	7	15.0	15.0	15.0	15.0	15.0	14.1	12.8
With Wire Leads								**400 Vdc (275 Vac)**								
1	935C4W1K	0.620 ± 0.093	(15.7) ± (2.4)	1.500	(38.1)	0.032	(0.8)	19	19	9.5	9.5	9.5	9.5	9.5	7.8	7.1
2	935C4W2K	0.802 ± 0.093	(20.4) ± (2.4)	1.750	(44.4)	0.040	(1.0)	15	16	15.0	15.0	15.0	13.4	11.6	9.5	8.7
3	935C4W3K	0.961 ± 0.125	(24.4) ± (3.2)	1.750	(44.4)	0.040	(1.0)	12	16	15.0	15.0	15.0	15.0	13.1	10.7	9.8
5	935C4W5K	1.067 ± 0.125	(27.1) ± (3.2)	2.250	(57.1)	0.040	(1.0)	10	11	15.0	15.0	15.0	15.0	15.0	12.5	11.4
10	935C4W10K	1.543 ± 0.125	(39.2) ± (3.2)	2.250	(57.1)	0.040	(1.0)	6	11	15.0	15.0	15.0	15.0	15.0	15.0	14.1
With Lug Leads								**100 Vdc (70 Vac)**								
1	935H1W1K	0.469 ± 0.062	(11.9) ± (1.6)	0.750	(19.0)	1.640	(41.6)	15	25	10.3	9.5	8.7	7.8	6.7	5.5	5.0
2	935H1W2K	0.534 ± 0.062	(13.6) ± (1.6)	0.938	(23.8)	1.828	(46.4)	12	16	12.0	11.0	10.0	8.9	7.8	6.3	5.8
3	935H1W3K	0.624 ± 0.093	(15.8) ± (2.4)	0.938	(23.8)	1.828	(46.4)	11	16	13.3	12.3	11.2	10.0	8.7	7.1	6.5
5	935H1W5K	0.640 ± 0.093	(16.3) ± (2.4)	1.250	(31.7)	2.098	(53.3)	10	10	14.8	13.7	12.5	11.2	9.7	7.9	7.2
10	935H1W10K	0.803 ± 0.093	(20.4) ± (2.4)	1.500	(38.1)	2.252	(57.2)	9	8	17.8	16.5	15.0	13.5	11.7	9.5	8.7
20	935H1W20K	0.875 ± 0.125	(22.2) ± (3.2)	2.250	(57.1)	3.054	(77.6)	8	5	21.6	20.0	18.3	16.4	14.2	11.6	10.6
30	935H1W30K	1.075 ± 0.125	(27.3) ± (3.2)	2.250	(57.1)	3.054	(77.6)	6	5	24.3	22.5	20.5	18.4	15.9	13.0	11.9
With Lug Leads								**200 Vdc (140 Vac)**								
1	935H2W1K	0.450 ± 0.062	(11.4) ± (1.6)	1.250	(31.7)	2.098	(53.3)	20	15	7.3	7.3	7.3	7.3	7.3	6.4	5.8
2	935H2W2K	0.605 ± 0.093	(15.4) ± (2.4)	1.250	(31.7)	2.098	(53.3)	15	15	14.3	13.3	12.1	10.8	9.4	7.7	7.0
3	935H2W3K	0.654 ± 0.093	(16.6) ± (2.4)	1.500	(38.1)	2.252	(57.2)	13	12	15.9	14.7	13.5	12.0	10.4	8.5	7.8
5	935H2W5K	0.768 ± 0.093	(19.5) ± (2.4)	1.750	(44.4)	2.570	(65.3)	11	9	18.3	17.0	15.5	13.9	12.0	9.8	8.9
10	935H2W10K	0.905 ± 0.125	(23.0) ± (3.2)	2.250	(57.1)	3.054	(77.6)	9	7	22.4	20.7	18.9	16.9	14.6	12.0	10.9
20	935H2W20K	1.315 ± 0.125	(33.4) ± (3.2)	2.250	(57.1)	3.054	(77.6)	6	7	27.4	25.4	23.2	20.7	17.9	14.7	13.4
With Lug Leads								**400 Vdc (275 Vac)**								
1	935H4W1K	0.620 ± 0.093	(15.7) ± (2.4)	1.500	(38.1)	2.252	(57.2)	19	19	9.5	9.5	9.5	9.5	9.5	8.3	7.5
2	935H4W2K	0.802 ± 0.093	(20.4) ± (2.4)	1.750	(44.4)	2.570	(65.3)	15	16	15.0	15.0	15.0	14.2	12.3	10.0	9.1
3	935H4W3K	0.961 ± 0.125	(24.4) ± (3.2)	1.750	(44.4)	2.570	(65.3)	12	16	21.1	19.5	17.8	15.9	13.8	11.3	10.3
5	935H4W5K	1.067 ± 0.125	(27.1) ± (3.2)	2.250	(57.1)	3.054	(77.6)	10	11	24.4	22.6	20.6	18.5	16.0	13.1	11.9
10	935H4W10K	1.543 ± 0.125	(39.2) ± (3.2)	2.250	(57.1)	3.054	(77.6)	6	11	30.0	27.8	25.4	22.7	19.7	16.1	14.7