

Film Capacitors

High Current, Wrap-and-Fill, Metallized Polypropylene



FEATURES

- Wire or lug terminals
- High stability
- High ripple to 30 amperes
- Low inductance
- Low ESR

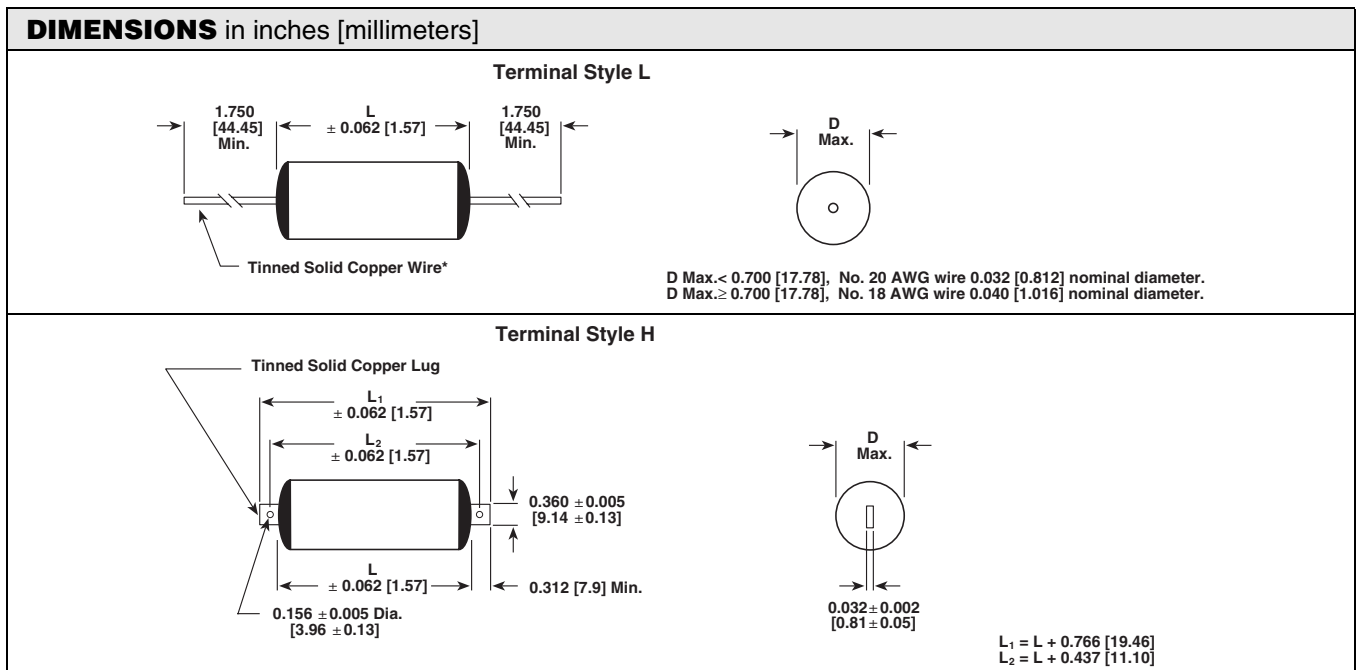
PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55 °C to + 105 °C
Capacitance Range: 1.0 μF to 30.0 μF
Capacitance Tolerance: ± 10 %, ± 5 %
DC Voltage Rating: 100 WVDC to 400 WVDC
Equivalent Series Resistance: 20 kHz to 100 kHz
Dissipation Factor: 0.1 % maximum
 Measured at 1000 Hz at + 25 °C
 $\Delta V/\Delta T$: 10 V/millisecond maximum
Voltage Test: 200 % of rated voltage for 2 minutes
Insulation Resistance: Measured at 100 WVDC after a 2 minute charge.
 At + 25 °C: 200 000 Megohm - Microfarads, or 400 000 Megohm minimum
Vibration Test (Condition B): No mechanical damage, short, open or intermittent circuits.

DC Life Test: 140 % of rated voltage for 1000 hours at + 105 °C. No visible damage. No open or short circuits.
 Maximum Δ CAP ± 1.0 %
 Minimum IR = 50 % of initial limit
 Maximum DF = 0.10 %
Humidity Test: 95 % relative humidity at + 40 °C for 250 hours. No visible damage.
 Maximum Δ CAP ± 1.0 %
 Minimum IR = 20 % of initial limit
 Maximum DF = 0.12 %

PHYSICAL CHARACTERISTICS

Pull Test:
Wire Leads: - 5 pounds (2.3 kilograms) for one minute. No physical damage.
Terminal Lugs: - 10 pounds (4.5 kilograms) for one minute. No physical damage.
Lead Bend: After three complete consecutive bends, no damage.
Marking: Sprague® trademark, type or part number, capacitance and voltage.



* Leads to be within ± 0.062" [1.57 mm] of center line at egress but not less than 0.031" [0.79 mm] from edge (Terminal Style L only).



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STANDARD RATINGS in inches [millimeters]												
CAPACITANCE (μ F)	PART NUMBER**	CASE SIZE		ESR LIMIT (Milliohm) 20 kHz - 100 kHz	MAXIMUM RIPPLE CURRENT (Amps rms) at 20 kHz - 100 kHz Case Temperature at							
		D	L		+25 °C	+35 °C	+45 °C	+55 °C	+65 °C	+75 °C	+85 °C	
Terminal Style L - Units with Wire Leads												
100 WVDC												
1.0*	735P105X9100L	0.531 [13.49]	0.750 [19.05]	15.0	9.2	8.5	7.8	7.0	6.0	4.9	4.5	
2.0	735P205X9100L	0.596 [15.14]	0.938 [23.81]	12.0	10.8	10.0	9.1	8.2	7.0	5.8	5.3	
3.0	735P305X9100L	0.717 [18.21]	0.938 [23.81]	11.0	12.1	11.2	10.3	9.2	8.0	6.5	5.9	
5.0	735P505X9100L	0.733 [18.62]	1.250 [31.75]	10.0	13.8	12.7	11.6	10.4	9.0	7.4	6.7	
10.0*	735P106X9100L	0.898 [22.81]	1.500 [38.10]	9.0	15.0	15.0	14.2	12.7	11.0	9.0	8.2	
20.0	735P206X9100L	1.000 [25.40]	2.250 [57.15]	8.0	15.0	15.0	15.0	15.0	13.6	11.1	10.0	
30.0	735P306X9100L	1.200 [30.48]	2.250 [57.15]	6.0	15.0	15.0	15.0	15.0	15.0	12.4	11.4	
200 WVDC												
1.0*	735P105X9200L	0.512 [13.01]	1.250 [31.75]	20.0	7.3	7.3	7.3	7.3	7.2	5.9	5.4	
2.0*	735P205X9200L	0.698 [17.73]	1.250 [31.75]	15.0	12.0	12.0	11.3	10.1	8.7	7.1	6.5	
3.0	735P305X9200L	0.747 [18.97]	1.500 [38.10]	13.0	15.0	13.8	12.6	11.3	9.8	8.0	7.3	
5.0*	735P505X9200L	0.862 [21.89]	1.750 [44.45]	11.0	15.0	15.0	14.7	13.1	11.4	9.3	8.5	
10.0*	735P106X9200L	1.030 [26.16]	2.250 [57.15]	9.0	15.0	15.0	15.0	15.0	13.8	11.3	10.3	
20.0	735P206X9200L	1.440 [36.58]	2.250 [57.15]	6.0	15.0	15.0	15.0	15.0	15.0	14.1	12.8	
400 WVDC												
1.0*	735P105X9400L	0.713 [18.11]	1.500 [38.10]	19.0	9.5	9.5	9.5	9.5	9.5	7.8	7.1	
2.0*	735P205X9400L	0.895 [22.73]	1.750 [44.45]	15.0	15.0	15.0	15.0	13.4	11.6	9.5	8.7	
3.0*	735P305X9400L	1.086 [27.58]	1.750 [44.45]	12.0	15.0	15.0	15.0	15.0	13.1	10.7	9.8	
5.0*	735P505X9400L	1.192 [30.28]	2.250 [57.15]	10.0	15.0	15.0	15.0	15.0	15.0	12.5	11.4	
10.0*	735P106X9400L	1.668 [42.37]	2.250 [57.15]	6.0	15.0	15.0	15.0	15.0	15.0	15.0	14.1	
Terminal Style H - Units with Terminal Lugs												
100 WVDC												
1.0	735P105X9100H	0.531 [13.49]	0.875 [22.23]	15.0	10.3	9.5	8.7	7.8	6.7	5.5	5.0	
2.0	735P205X9100H	0.596 [15.14]	1.062 [26.97]	12.0	12.0	11.0	10.0	8.9	7.8	6.3	5.8	
3.0	735P305X9100H	0.717 [18.21]	1.062 [26.97]	11.0	13.3	12.3	11.2	10.0	8.7	7.1	6.5	
5.0	735P505X9100H	0.733 [18.62]	1.375 [34.93]	10.0	14.8	13.7	12.5	11.2	9.7	7.9	7.2	
10.0	735P106X9100H	0.898 [22.81]	1.625 [41.28]	9.0	17.8	16.5	15.0	13.5	11.7	9.5	8.7	
20.0	735P206X9100H	1.000 [25.40]	2.375 [60.33]	8.0	21.6	20.0	18.3	16.4	14.2	11.6	10.6	
30.0	735P306X9100H	1.200 [30.48]	2.375 [60.33]	6.0	24.3	22.5	20.5	18.4	15.9	13.0	11.9	
200 WVDC												
1.0	735P105X9200H	0.512 [13.00]	1.375 [34.93]	20.0	7.3	7.3	7.3	7.3	7.3	6.4	5.8	
2.0	735P205X9200H	0.698 [17.73]	1.375 [34.93]	15.0	14.3	13.3	12.1	10.8	9.4	7.7	7.0	
3.0	735P305X9200H	0.747 [18.97]	1.625 [41.28]	13.0	15.9	14.7	13.5	12.0	10.4	8.5	7.8	
5.0	735P505X9200H	0.862 [21.89]	1.875 [47.63]	11.0	18.3	17.0	15.5	13.9	12.0	9.8	8.9	
10.0	735P106X9200H	1.030 [26.16]	2.375 [60.33]	9.0	22.4	20.7	18.9	16.9	14.6	12.0	10.9	
20.0	735P206X9200H	1.440 [36.58]	2.375 [60.33]	6.0	27.4	25.4	23.2	20.7	17.9	14.7	13.4	
400 WVDC												
1.0	735P105X9400H	0.713 [18.11]	1.625 [41.28]	19.0	9.5	9.5	9.5	9.5	9.5	8.3	7.5	
2.0	735P205X9400H	0.895 [22.73]	1.875 [47.63]	15.0	15.0	15.0	15.0	14.2	12.3	10.0	9.1	
3.0	735P305X9400H	1.086 [27.58]	1.875 [47.63]	12.0	21.1	19.5	17.8	15.9	13.8	11.3	10.3	
5.0	735P505X9400H	1.192 [30.28]	2.375 [60.33]	10.0	24.4	22.6	20.6	18.5	16.0	13.1	11.9	
10.0	735P106X9400H	1.668 [42.37]	2.375 [60.33]	6.0	30.0	27.8	25.4	22.7	19.7	16.1	14.7	

* These ratings are stocked.

** Part Numbers listed are for a capacitance tolerance of $\pm 10\%$. To specify $\pm 5\%$ tolerance, change the "X9" in the Part Number to "X5".

ORDERING INFORMATION				
735P	105	X9	100	L
TYPE	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING	TERMINAL STYLE
	This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	X9 = $\pm 10\%$ X5 = $\pm 5\%$	This is expressed in volts.	L = Wire Leads H = Lugs



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