

Vishay Sprague

Film Capacitors, High Current, Wrap-and-Fill, Metallized Polypropylene



FEATURES

- · Wire or lug terminals
- High stability
- High ripple to 30 A
- Low inductance
- Low ESR
- Compliant to RoHS directive 2002/95/EC



RoHS COMPLIANT

PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55 °C to + 105 °C

Capacitance Range: $1.0~\mu F$ to $30.0~\mu F$ Capacitance Tolerance: $\pm~10~\%, \pm~5~\%$ 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 $^{\circ}$ C

 $\Delta V/\Delta T$: 10 V/ms maximum

Voltage Test: 200 % of rated voltage for 2 min

Insulation Resistance: Measured at 100 WVDC after a

2 min charge.

At + 25 °C: 200 000 M $\Omega/\mu F$, or 400 000 M Ω minimum

Vibration Test (Condition B): No mechanical damage, short, open or intermittent circuits.

DC Life Test: 140 % of rated voltage for 1000 h at + 105 °C.

No visible damage. No open or short circuits.

Maximum \triangle CAP \pm 1.0 %Minimum IR = 50 % of initial limit

Maximum DF = 0.10 %

Humidity Test: 95 % relative humidity at + 40 °C for 250 h. No visible damage.

No visible damage. Maximum Δ CAP \pm 1.0 % Minimum IR = 20 % of initial limit

Maximum DF = 0.12 %

PHYSICAL CHARACTERISTICS

Pull Test:

Wire Leads: - 5 lb (2.3 kg) for one min. No physical damage. **Terminal Lugs:** - 10 lb (4.5. kg) for one min. No physical

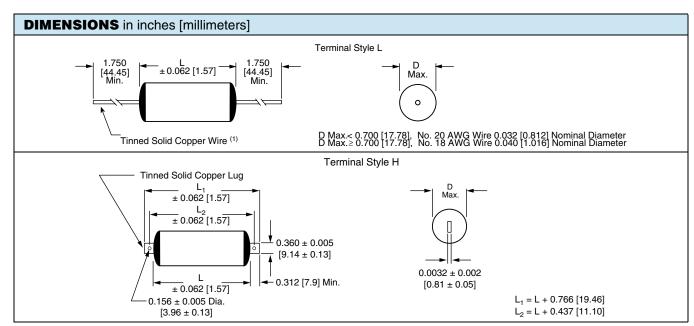
damage.

Lead Bend: After three complete consecutive bends. No

damage.

Marking: Sprague® trademark, type or part number,

capacitance and voltage.



Note (1) 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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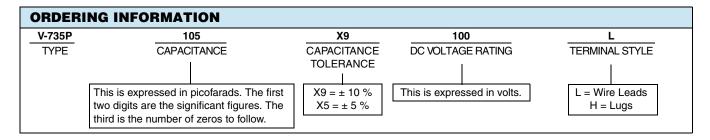


STANDARI	RATINGS in i	nches [millin	neters]								
		CASE SIZE		ESR LIMIT MAXIMUM RIPPLE CURRENT							
CAPACITANCE	PART NUMBER (1)			(m Ω)		(A _{RMS}) at 20 kHz - 100 kHz					
(μ F)				20 kHz to	CASE TEMPERATURE at						
		D	L	100 kHz	+ 25 °C	+ 35 °C	+ 45 °C	+ 55 °C	+ 65 °C	+ 75 °C	+ 85 °C
		Ter	minal Style L -		Wire Lea	ds					
				WVDC							
1.0	V-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	V-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	V-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	V-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	V-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	V-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	V-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
				WVDC							
1.0	V-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	V-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	V-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	V-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	V-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	V-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	V-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	V-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	V-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	V-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	V-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
		Term	inal Style H - U	nits with Te	erminal L	ugs					
				WVDC							
1.0	V-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	V-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	V-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	V-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	V-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	V-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	V-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	V-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	V-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	V-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	V-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	V-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	V-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
	-			WVDC							
1.0	V-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	V-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	V-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	V-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	V-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

Notes

(1) 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".

[•] Other capacitance values and voltage ratings are available upon request



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Vishay

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