

## Film Capacitors

### High Frequency, Wrap-and-Fill, Metallized Polypropylene



#### FEATURES

- Excellent AC performance
- Low Power dissipation
- Low dielectric absorption
- Close tolerance
- High stability



**RoHS**  
COMPLIANT

#### PERFORMANCE CHARACTERISTICS

**Operating Temperature:** - 55 °C to + 85 °C

**Voltage derating:**

At + 105 °C, 50 % of + 85 °C rating

**ESR:** 20 kHz to 100 kHz

**Capacitance Range:** 0.022  $\mu$ F to 10.0  $\mu$ F

**Capacitance Tolerance:**  $\pm 20\%$ ,  $\pm 10\%$ ,  $\pm 5\%$

**DC Voltage Rating:** 100 WVDC to 630 WVDC

**AC Voltage Rating:** 70 Vrms to 275 Vrms, 60 Hz to 400 Hz

**Dissipation Factor:** 0.1 % maximum  
Measure all units at 1000 Hz at + 25 °C

**DC Voltage Test:** 200 % of rated voltage for 2 minutes

**AC Voltage Test:** 130 % of rated rms voltage at 60 Hz for 15 seconds

**Insulation Resistance:** Measured at 100 WVDC after a 2 minute charge.

At + 25 °C: 200 000 Megohm - Microfarads  
or 400 000 Megohm minimum.

At + 85 °C: 10 000 Megohm - Microfarads  
or 20 000 Megohm minimum.

At + 105 °C: 1000 Megohm - Microfarads  
or 2000 Megohm minimum.

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

**DC Life Test:** 150 % of rated voltage for 1000 hours at + 85 °C. No open or short circuits. No visible damage.

Maximum  $\Delta$  CAP  $\pm 1.0\%$

Minimum IR = 50 % of initial limit

Maximum DF = 0.12 %

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

Maximum  $\Delta$  CAP  $\pm 1.0\%$

Minimum IR = 20 % of initial limit

Maximum DF = 0.12 %

**AC Life Test:** 110 % of rated rms voltage at 60 Hz for 1000 hours at + 85 °C.

Maximum  $\Delta$  CAP  $\pm 5\%$

Minimum IR = 50 % of initial limit

Maximum DF = 0.12 %

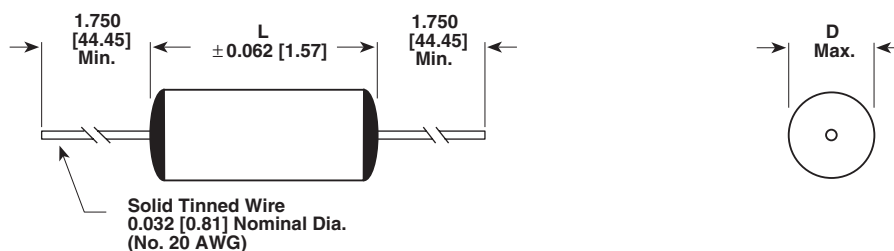
#### PHYSICAL CHARACTERISTICS

**Lead Pull:** 5 pounds (2.3 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.

#### DIMENSIONS in inches [millimeters]



\* 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.

**STANDARD RATINGS** in inches [millimeters]

| CAPACITANCE<br>( $\mu$ F) | PART NUMBER**  | CASE SIZE    |             | ESR<br>(Milliohms) | MAXIMUM RIPPLE CURRENT<br>(Amps rms) at 20 kHz |         |         |         |         |         |         |  |
|---------------------------|----------------|--------------|-------------|--------------------|------------------------------------------------|---------|---------|---------|---------|---------|---------|--|
|                           |                |              |             | 20 kHz -           | Case Temperature*** at                         |         |         |         |         |         |         |  |
|                           |                | D            | L           | 100 kHz            | + 25 °C                                        | + 35 °C | + 45 °C | + 55 °C | + 65 °C | + 75 °C | + 85 °C |  |
| 100 WVDC                  |                |              |             |                    |                                                |         |         |         |         |         |         |  |
| 0.22                      | V-730P224X9100 | 0.275 [7.0]  | 0.75 [19.0] | -                  | 2.3                                            | 2.3     | 2.3     | 2.3     | 2.3     | 1.8     | 1.0     |  |
| 0.27                      | V-730P274X9100 | 0.298 [7.6]  | 0.75 [19.0] | -                  | 2.6                                            | 2.6     | 2.6     | 2.6     | 2.6     | 1.9     | 1.1     |  |
| 0.33                      | V-730P334X9100 | 0.324 [8.2]  | 0.75 [19.0] | -                  | 2.8                                            | 2.8     | 2.8     | 2.8     | 2.6     | 2.2     | 1.2     |  |
| 0.39                      | V-730P394X9100 | 0.347 [8.8]  | 0.75 [19.0] | -                  | 3.1                                            | 3.1     | 3.1     | 3.1     | 2.9     | 2.3     | 1.3     |  |
| 0.47                      | V-730P474X9100 | 0.376 [9.6]  | 0.75 [19.0] | 37.0               | 3.7                                            | 3.4     | 3.1     | 2.8     | 2.5     | 2.0     | 1.4     |  |
| 0.56                      | V-730P564X9100 | 0.321 [8.2]  | 1.00 [25.4] | 35.0               | 3.9                                            | 3.6     | 3.3     | 2.9     | 2.6     | 2.1     | 1.5     |  |
| 0.68                      | V-730P684X9100 | 0.348 [8.8]  | 1.00 [25.4] | 33.0               | 4.1                                            | 3.8     | 3.5     | 3.1     | 2.8     | 2.2     | 1.6     |  |
| 0.82                      | V-730P824X9100 | 0.377 [9.6]  | 1.00 [25.4] | 31.0               | 4.3                                            | 4.0     | 3.6     | 3.2     | 2.9     | 2.3     | 1.7     |  |
| 1.0                       | V-730P105X9100 | 0.421 [10.7] | 1.00 [25.4] | 26.0               | 5.5                                            | 5.1     | 4.7     | 4.2     | 3.6     | 2.8     | 2.6     |  |
| 1.2                       | V-730P125X9100 | 0.454 [11.5] | 1.00 [25.4] | 24.0               | 5.7                                            | 5.3     | 4.9     | 4.4     | 3.8     | 3.0     | 2.8     |  |
| 1.5                       | V-730P155X9100 | 0.500 [12.7] | 1.00 [25.4] | 20.0               | 6.1                                            | 5.5     | 5.1     | 4.6     | 4.0     | 3.2     | 3.1     |  |
| 1.8                       | V-730P185X9100 | 0.541 [13.7] | 1.00 [25.4] | 19.0               | 6.3                                            | 5.7     | 5.3     | 4.8     | 4.1     | 3.4     | 3.0     |  |
| 2.0                       | V-730P205X9100 | 0.486 [12.3] | 1.25 [31.8] | 18.0               | 6.5                                            | 6.0     | 5.5     | 4.9     | 4.2     | 3.5     | 3.2     |  |
| 2.2                       | V-730P225X9100 | 0.507 [12.9] | 1.25 [31.8] | 18.0               | 6.8                                            | 6.3     | 5.7     | 5.1     | 4.4     | 3.6     | 3.3     |  |
| 2.7                       | V-730P275X9100 | 0.554 [14.1] | 1.25 [31.8] | 17.0               | 7.1                                            | 6.5     | 6.0     | 5.3     | 4.6     | 3.7     | 3.4     |  |
| 3.0                       | V-730P305X9100 | 0.581 [14.8] | 1.25 [31.8] | 16.0               | 7.3                                            | 6.7     | 6.2     | 5.5     | 4.8     | 3.9     | 3.5     |  |
| 3.3                       | V-730P335X9100 | 0.606 [15.4] | 1.25 [31.8] | 16.0               | 7.4                                            | 6.8     | 6.4     | 5.6     | 4.9     | 4.0     | 3.6     |  |
| 3.9                       | V-730P395X9100 | 0.654 [16.6] | 1.25 [31.8] | 15.0               | 7.6                                            | 6.9     | 6.6     | 5.8     | 5.1     | 4.1     | 3.7     |  |
| 4.0                       | V-730P405X9100 | 0.537 [13.6] | 1.75 [44.5] | 15.0               | 7.8                                            | 7.0     | 6.7     | 5.9     | 5.2     | 4.2     | 3.8     |  |
| 4.7                       | V-730P475X9100 | 0.577 [14.7] | 1.75 [44.5] | 15.0               | 8.1                                            | 7.4     | 6.8     | 6.0     | 5.3     | 4.3     | 3.9     |  |
| 5.0                       | V-730P505X9100 | 0.593 [15.1] | 1.75 [44.5] | 14.0               | 8.3                                            | 7.6     | 7.0     | 6.2     | 5.4     | 4.4     | 4.0     |  |
| 5.6                       | V-730P565X9100 | 0.624 [15.8] | 1.75 [44.5] | 14.0               | 8.4                                            | 7.7     | 7.1     | 6.4     | 5.5     | 4.5     | 4.1     |  |
| 6.0                       | V-730P605X9100 | 0.644 [16.4] | 1.75 [44.5] | 14.0               | 8.5                                            | 7.8     | 7.2     | 6.5     | 5.6     | 4.6     | 4.2     |  |
| 6.8                       | V-730P685X9100 | 0.682 [17.3] | 1.75 [44.5] | 13.0               | 8.5                                            | 8.0     | 7.4     | 6.7     | 5.7     | 4.7     | 4.3     |  |
| 8.0                       | V-730P805X9100 | 0.735 [18.7] | 1.75 [44.5] | 13.0               | 8.6                                            | 8.3     | 7.7     | 6.8     | 6.0     | 4.8     | 4.4     |  |
| 8.2                       | V-730P825X9100 | 0.743 [18.9] | 1.75 [44.5] | 13.0               | 8.8                                            | 8.6     | 8.0     | 7.0     | 6.1     | 4.9     | 4.5     |  |
| 10.0                      | V-730P106X9100 | 0.815 [20.7] | 1.75 [44.5] | 12.0               | 9.0                                            | 9.0     | 8.5     | 7.6     | 6.6     | 5.4     | 4.9     |  |
| 250 WVDC                  |                |              |             |                    |                                                |         |         |         |         |         |         |  |
| 0.1                       | V-730P104X9250 | 0.279 [7.1]  | 0.75 [19.0] | -                  | 1.5                                            | 1.5     | 1.5     | 1.5     | 1.5     | 1.5     | 0.9     |  |
| 0.12                      | V-730P124X9250 | 0.300 [7.6]  | 0.75 [19.0] | -                  | 1.9                                            | 1.9     | 1.9     | 1.9     | 1.9     | 1.7     | 1.1     |  |
| 0.15                      | V-730P154X9250 | 0.327 [8.3]  | 0.75 [19.0] | -                  | 2.3                                            | 2.3     | 2.3     | 2.3     | 2.3     | 1.9     | 1.1     |  |
| 0.18                      | V-730P184X9250 | 0.353 [9.0]  | 0.75 [19.0] | -                  | 2.7                                            | 2.7     | 2.7     | 2.7     | 2.5     | 2.0     | 1.2     |  |
| 0.22                      | V-730P224X9250 | 0.306 [7.8]  | 1.00 [25.4] | -                  | 1.9                                            | 1.9     | 1.9     | 1.9     | 1.9     | 1.9     | 1.3     |  |
| 0.27                      | V-730P274X9250 | 0.333 [8.5]  | 1.00 [25.4] | -                  | 2.4                                            | 2.4     | 2.4     | 2.4     | 2.4     | 2.2     | 1.4     |  |
| 0.33                      | V-730P334X9250 | 0.362 [9.2]  | 1.00 [25.4] | -                  | 2.9                                            | 2.9     | 2.9     | 2.9     | 2.9     | 2.3     | 1.5     |  |
| 0.39                      | V-730P394X9250 | 0.389 [9.9]  | 1.00 [25.4] | -                  | 3.4                                            | 3.4     | 3.4     | 3.2     | 2.9     | 2.3     | 1.6     |  |
| 0.47                      | V-730P474X9250 | 0.422 [10.7] | 1.00 [25.4] | 35.0               | 3.8                                            | 3.7     | 3.6     | 3.4     | 2.9     | 2.4     | 1.7     |  |
| 0.56                      | V-730P564X9250 | 0.464 [11.8] | 1.00 [25.4] | 33.0               | 3.9                                            | 3.8     | 3.7     | 3.5     | 3.1     | 2.5     | 1.8     |  |
| 0.68                      | V-730P684X9250 | 0.425 [10.8] | 1.25 [31.8] | 32.0               | 4.0                                            | 3.9     | 3.8     | 3.7     | 3.2     | 2.6     | 1.9     |  |
| 0.82                      | V-730P824X9250 | 0.471 [12.0] | 1.25 [31.8] | 31.0               | 4.2                                            | 4.1     | 4.0     | 3.9     | 3.4     | 2.8     | 2.0     |  |
| 1.0                       | V-730P105X9250 | 0.513 [13.0] | 1.25 [31.8] | 28.0               | 4.4                                            | 4.4     | 4.4     | 4.4     | 4.3     | 3.5     | 3.2     |  |
| 1.2                       | V-730P125X9250 | 0.554 [14.1] | 1.25 [31.8] | 27.0               | 4.7                                            | 4.6     | 4.5     | 5.0     | 4.5     | 3.7     | 3.3     |  |
| 1.5                       | V-730P155X9250 | 0.613 [15.6] | 1.25 [31.8] | 26.0               | 5.1                                            | 5.0     | 4.9     | 5.4     | 4.7     | 3.9     | 3.5     |  |
| 1.8                       | V-730P185X9250 | 0.667 [17.0] | 1.25 [31.8] | 25.0               | 5.9                                            | 5.8     | 5.7     | 5.7     | 5.0     | 4.1     | 3.7     |  |
| 2.0                       | V-730P205X9250 | 0.700 [17.8] | 1.25 [31.8] | 21.0               | 7.2                                            | 7.2     | 6.8     | 6.0     | 5.2     | 4.3     | 3.9     |  |
| 2.2                       | V-730P225X9250 | 0.610 [15.5] | 1.75 [44.5] | 20.0               | 8.4                                            | 7.5     | 7.0     | 6.3     | 5.4     | 4.5     | 4.1     |  |
| 2.7                       | V-730P275X9250 | 0.669 [17.0] | 1.75 [44.5] | 19.0               | 8.6                                            | 7.8     | 7.3     | 6.6     | 5.7     | 4.7     | 4.3     |  |
| 3.0                       | V-730P305X9250 | 0.703 [17.9] | 1.75 [44.5] | 18.0               | 9.0                                            | 8.3     | 7.6     | 6.8     | 5.9     | 4.8     | 4.4     |  |
| 3.3                       | V-730P335X9250 | 0.734 [18.6] | 1.75 [44.5] | 18.0               | 9.0                                            | 8.4     | 7.8     | 7.0     | 6.0     | 4.9     | 4.5     |  |
| 3.9                       | V-730P395X9250 | 0.794 [20.2] | 1.75 [44.5] | 17.0               | 9.0                                            | 8.5     | 8.0     | 7.2     | 6.2     | 5.0     | 4.6     |  |
| 4.0                       | V-730P405X9250 | 0.803 [20.4] | 1.75 [44.5] | 16.0               | 9.0                                            | 8.6     | 8.2     | 7.4     | 6.3     | 5.1     | 4.7     |  |
| 4.7                       | V-730P475X9250 | 0.866 [22.0] | 1.75 [44.5] | 16.0               | 9.0                                            | 8.8     | 8.5     | 7.7     | 6.6     | 5.3     | 4.9     |  |
| 5.0                       | V-730P505X9250 | 0.892 [22.7] | 1.75 [44.5] | 15.0               | 9.0                                            | 9.0     | 8.8     | 7.9     | 6.8     | 5.6     | 5.1     |  |
| 5.6                       | V-730P565X9250 | 0.941 [23.9] | 1.75 [44.5] | 15.0               | 9.0                                            | 9.0     | 8.9     | 8.0     | 7.0     | 5.8     | 5.3     |  |
| 6.0                       | V-730P605X9250 | 0.972 [24.7] | 1.75 [44.5] | 15.0               | 9.0                                            | 9.0     | 9.0     | 8.2     | 7.2     | 5.9     | 5.5     |  |
| 6.8                       | V-730P685X9250 | 0.882 [22.4] | 2.25 [57.2] | 15.0               | 9.0                                            | 9.0     | 9.0     | 8.4     | 7.4     | 6.0     | 5.6     |  |
| 8.0                       | V-730P805X9250 | 0.953 [24.2] | 2.25 [57.2] | 14.0               | 9.0                                            | 9.0     | 9.0     | 8.7     | 7.8     | 6.3     | 5.8     |  |
| 8.2                       | V-730P825X9250 | 0.964 [24.5] | 2.25 [57.2] | 14.0               | 9.0                                            | 9.0     | 9.0     | 8.8     | 7.9     | 6.4     | 5.9     |  |
| 10.0                      | V-730P106X9250 | 1.060 [26.9] | 2.25 [57.2] | 13.0               | 9.0                                            | 9.0     | 9.0     | 8.9     | 8.3     | 6.8     | 6.2     |  |

**Note:**

Other capacitance values and voltage ratings are available upon request

\*\* Part Numbers listed are for a capacitance tolerance of  $\pm 10\%$ . To specify  $\pm 20\%$  tolerance, change the "X9" in the Part Number to "X0"; for  $\pm 5\%$ , from "X9" to "X5".\*\*\* The peak current pulse capability of these capacitors is 10 amperes/ $\mu$ F. The maximum rate voltage change is 10 V/ $\mu$ S.

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

Vishay Sprague

**STANDARD RATINGS** in inches [millimeters]

| CAPACITANCE<br>(μF) | PART NUMBER**  | CASE SIZE    |             | ESR                 | MAXIMUM RIPPLE CURRENT |         |         |         |         |         |         |
|---------------------|----------------|--------------|-------------|---------------------|------------------------|---------|---------|---------|---------|---------|---------|
|                     |                |              |             | (Milliohms)         | (Amps rms) at 20 kHz   |         |         |         |         |         |         |
|                     |                |              |             | 20 kHz -<br>100 kHz | Case Temperature*** at |         |         |         |         |         |         |
|                     |                | D            | L           |                     | + 25 °C                | + 35 °C | + 45 °C | + 55 °C | + 65 °C | + 75 °C | + 85 °C |
| 400 WVDC            |                |              |             |                     |                        |         |         |         |         |         |         |
| 0.047               | V-730P473X9400 | 0.258 [6.6]  | 0.75 [19.0] | -                   | 1.0                    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 0.9     |
| 0.056               | V-730P563X9400 | 0.275 [7.0]  | 0.75 [19.0] | -                   | 1.1                    | 1.1     | 1.1     | 1.1     | 1.1     | 1.1     | 0.9     |
| 0.068               | V-730P683X9400 | 0.297 [7.5]  | 0.75 [19.0] | -                   | 1.4                    | 1.4     | 1.4     | 1.4     | 1.4     | 1.4     | 1.0     |
| 0.082               | V-730P823X9400 | 0.320 [8.1]  | 0.75 [19.0] | -                   | 1.7                    | 1.7     | 1.7     | 1.7     | 1.7     | 1.6     | 1.1     |
| 0.1                 | V-730P104X9400 | 0.348 [8.8]  | 0.75 [19.0] | -                   | 2.0                    | 2.0     | 2.0     | 2.0     | 2.0     | 1.9     | 1.3     |
| 0.12                | V-730P124X9400 | 0.299 [7.6]  | 1.00 [25.4] | -                   | 1.4                    | 1.4     | 1.4     | 1.4     | 1.4     | 1.4     | 1.4     |
| 0.15*               | V-730P154X9400 | 0.328 [8.3]  | 1.00 [25.4] | -                   | 1.7                    | 1.7     | 1.7     | 1.7     | 1.7     | 1.7     | 1.6     |
| 0.18                | V-730P184X9400 | 0.353 [9.0]  | 1.00 [25.4] | -                   | 2.1                    | 2.1     | 2.1     | 2.1     | 2.1     | 2.1     | 1.7     |
| 0.22                | V-730P224X9400 | 0.385 [9.8]  | 1.00 [25.4] | -                   | 2.6                    | 2.6     | 2.6     | 2.6     | 2.6     | 2.5     | 1.8     |
| 0.27                | V-730P274X9400 | 0.421 [10.7] | 1.00 [25.4] | -                   | 3.1                    | 3.1     | 3.1     | 3.1     | 3.1     | 2.7     | 1.9     |
| 0.33                | V-730P334X9400 | 0.469 [11.9] | 1.00 [25.4] | -                   | 3.8                    | 3.8     | 3.8     | 3.8     | 3.5     | 2.9     | 2.0     |
| 0.39                | V-730P394X9400 | 0.503 [12.8] | 1.00 [25.4] | -                   | 4.1                    | 4.1     | 4.1     | 4.1     | 3.7     | 3.1     | 2.1     |
| 0.47                | V-730P474X9400 | 0.545 [13.8] | 1.00 [25.4] | 32.0                | 5.7                    | 5.5     | 5.0     | 4.4     | 3.8     | 3.2     | 2.2     |
| 0.56                | V-730P564X9400 | 0.506 [12.9] | 1.25 [31.8] | 31.0                | 5.7                    | 5.7     | 5.3     | 4.4     | 4.1     | 3.3     | 2.3     |
| 0.68                | V-730P684X9400 | 0.551 [14.0] | 1.25 [31.8] | 30.0                | 5.7                    | 5.7     | 5.5     | 4.8     | 4.3     | 3.5     | 2.4     |
| 0.82                | V-730P824X9400 | 0.599 [15.2] | 1.25 [31.8] | 28.0                | 5.7                    | 5.7     | 5.6     | 5.3     | 4.5     | 3.7     | 2.6     |
| 1.0                 | V-730P105X9400 | 0.655 [16.6] | 1.25 [31.8] | 27.0                | 5.7                    | 5.7     | 5.7     | 5.7     | 5.7     | 4.7     | 4.3     |
| 1.2                 | V-730P125X9400 | 0.712 [18.1] | 1.25 [31.8] | 26.0                | 6.3                    | 6.2     | 6.0     | 5.9     | 5.8     | 4.9     | 4.5     |
| 1.5                 | V-730P155X9400 | 0.658 [16.7] | 1.75 [44.5] | 25.0                | 7.0                    | 6.9     | 6.7     | 6.6     | 6.5     | 5.2     | 4.7     |
| 1.8                 | V-730P185X9400 | 0.716 [18.2] | 1.75 [44.5] | 23.0                | 8.0                    | 7.9     | 7.8     | 7.7     | 6.8     | 5.5     | 5.0     |
| 2.0                 | V-730P205X9400 | 0.752 [19.1] | 1.75 [44.5] | 21.0                | 9.0                    | 9.0     | 9.0     | 8.0     | 7.0     | 5.7     | 5.2     |
| 2.2                 | V-730P225X9400 | 0.786 [20.0] | 1.75 [44.5] | 20.0                | 9.0                    | 9.0     | 9.0     | 8.3     | 7.4     | 5.9     | 5.4     |
| 2.7                 | V-730P275X9400 | 0.865 [22.0] | 1.75 [44.5] | 19.0                | 9.0                    | 9.0     | 9.0     | 8.6     | 7.6     | 6.0     | 5.6     |
| 3.0                 | V-730P305X9400 | 0.909 [23.1] | 1.75 [44.5] | 17.0                | 9.0                    | 9.0     | 9.0     | 9.0     | 7.9     | 6.4     | 5.9     |
| 3.3                 | V-730P335X9400 | 0.951 [24.2] | 1.75 [44.5] | 16.0                | 9.0                    | 9.0     | 9.0     | 9.0     | 8.1     | 6.6     | 6.3     |
| 3.9                 | V-730P395X9400 | 1.031 [26.2] | 1.75 [44.5] | 15.0                | 9.0                    | 9.0     | 9.0     | 9.0     | 8.3     | 6.8     | 6.5     |
| 630 WVDC            |                |              |             |                     |                        |         |         |         |         |         |         |
| 0.022               | V-730P223X9630 | 0.283 [7.2]  | 0.75 [19.0] | -                   | 0.8                    | 0.8     | 0.8     | 0.8     | 0.8     | 0.8     | 0.8     |
| 0.027               | V-730P273X9630 | 0.307 [7.8]  | 0.75 [19.0] | -                   | 1.0                    | 1.0     | 1.0     | 1.0     | 1.0     | 1.0     | 0.9     |
| 0.033               | V-730P333X9630 | 0.334 [8.5]  | 0.75 [19.0] | -                   | 1.2                    | 1.2     | 1.2     | 1.2     | 1.2     | 1.2     | 1.0     |
| 0.039               | V-730P393X9630 | 0.358 [9.1]  | 0.75 [19.0] | -                   | 1.4                    | 1.4     | 1.4     | 1.4     | 1.4     | 1.4     | 1.0     |
| 0.047               | V-730P473X9630 | 0.388 [9.9]  | 0.75 [19.0] | -                   | 1.7                    | 1.7     | 1.7     | 1.7     | 1.7     | 1.6     | 1.1     |
| 0.056               | V-730P563X9630 | 0.418 [10.6] | 0.75 [19.0] | -                   | 2.1                    | 2.1     | 2.1     | 2.1     | 2.1     | 1.7     | 1.2     |
| 0.068               | V-730P683X9630 | 0.346 [8.8]  | 1.00 [25.4] | -                   | 1.3                    | 1.3     | 1.3     | 1.3     | 1.3     | 1.3     | 1.3     |
| 0.082               | V-730P823X9630 | 0.374 [9.5]  | 1.00 [25.4] | -                   | 1.6                    | 1.6     | 1.6     | 1.6     | 1.6     | 1.6     | 1.6     |
| 0.1                 | V-730P104X9630 | 0.408 [10.4] | 1.00 [25.4] | -                   | 1.9                    | 1.9     | 1.9     | 1.9     | 1.9     | 1.9     | 1.6     |
| 0.12                | V-730P124X9630 | 0.443 [11.3] | 1.00 [25.4] | -                   | 2.3                    | 2.3     | 2.3     | 2.3     | 2.3     | 2.3     | 1.8     |
| 0.15                | V-730P154X9630 | 0.496 [12.6] | 1.00 [25.4] | -                   | 2.9                    | 2.9     | 2.9     | 2.9     | 2.9     | 2.9     | 1.9     |
| 0.18                | V-730P184X9630 | 0.538 [13.7] | 1.00 [25.4] | -                   | 3.5                    | 3.5     | 3.5     | 3.5     | 3.5     | 2.7     | 1.9     |
| 0.22                | V-730P224X9630 | 0.496 [12.6] | 1.25 [31.8] | -                   | 2.8                    | 2.8     | 2.8     | 2.8     | 2.8     | 2.8     | 2.3     |
| 0.27                | V-730P274X9630 | 0.542 [13.8] | 1.25 [31.8] | -                   | 3.5                    | 3.5     | 3.5     | 3.5     | 3.5     | 3.3     | 2.3     |
| 0.33                | V-730P334X9630 | 0.593 [15.1] | 1.25 [31.8] | -                   | 4.3                    | 4.3     | 4.3     | 4.3     | 4.3     | 3.5     | 2.4     |
| 0.39                | V-730P394X9630 | 0.639 [16.2] | 1.25 [31.8] | -                   | 5.0                    | 5.0     | 5.0     | 5.0     | 4.6     | 3.7     | 2.5     |
| 0.47                | V-730P474X9630 | 0.696 [17.7] | 1.25 [31.8] | 28.0                | 6.8                    | 6.3     | 5.8     | 5.2     | 4.5     | 3.6     | 2.6     |
| 0.56                | V-730P564X9630 | 0.608 [15.4] | 1.75 [44.5] | 26.0                | 7.4                    | 6.9     | 6.3     | 5.6     | 4.8     | 4.0     | 2.8     |
| 0.68                | V-730P684X9630 | 0.664 [16.9] | 1.75 [44.5] | 25.0                | 7.8                    | 7.2     | 6.6     | 5.9     | 5.1     | 4.2     | 2.9     |
| 0.82                | V-730P824X9630 | 0.724 [18.4] | 1.75 [44.5] | 22.0                | 8.1                    | 7.5     | 6.9     | 6.2     | 5.3     | 4.3     | 3.1     |
| 1.0                 | V-730P105X9630 | 0.794 [20.2] | 1.75 [44.5] | 18.0                | 8.6                    | 7.9     | 7.3     | 6.5     | 5.6     | 4.6     | 3.6     |

**Note:**

Other capacitance values and voltage ratings are available on request

\*\* Part Numbers listed are for a capacitance tolerance of  $\pm 10\%$ . To specify  $\pm 20\%$  tolerance, change the "X9" in the Part Number to "X0"; for  $\pm 5\%$ , from "X9" to "X5".\*\*\* The peak current pulse capability of these capacitors is 10 amperes/ $\mu$ F. The maximum rate voltage change is 10 V/ $\mu$ S.**ORDERING INFORMATION**

| V-730P                                                                                            | 224                                                                                                                                       | X9                                                    | 100                                    |     |
|---------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------|-----|
| TYPE                                                                                              | CAPACITANCE                                                                                                                               | CAPACITANCE TOLERANCE                                 | DC VOLTAGE RATING*                     |     |
|                                                                                                   | <div>This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.</div> | <div>X0 = ± 20 %<br/>X9 = ± 10 %<br/>X5 = ± 5 %</div> | <div>This is expressed in volts.</div> |     |
| * At + 85 °C, AC rms ratings for frequencies up to and including 400 Hz correspond to this table: |                                                                                                                                           |                                                       |                                        |     |
| WVDC                                                                                              | 100                                                                                                                                       | 250                                                   | 400                                    | 630 |
| RATED rms VOLTS                                                                                   | 70                                                                                                                                        | 175                                                   | 275                                    | 275 |



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