



## Film Capacitors Metalized Polycarbonate, Wrap-and-Fill



### FEATURES

- Superior performance
- High efficiency
- High stability
- High reliability
- Rugged construction
- Small size

### PERFORMANCE CHARACTERISTICS

**Operating Temperature:** - 55°C to + 125°C.

**Capacitance Range:** 0.001μF to 10.0μF.

**Capacitance Tolerance:** ± 10%, ± 5%, ± 2%.

**DC Voltage Rating:** 50 WVDC to 400 WVDC.

**AC Voltage Rating:** See AC Voltage Rating table.

**Dissipation Factor:** 0.25% maximum.

**Voltage Test:** 200% of rated voltage for 1 minute.

#### Insulation Resistance:

At + 25°C: 50,000 Megohm - Microfarads,  
or 100,000 Megohm minimum.

At + 85°C: 2,000 Megohm - Microfarads,  
or 4000 Megohm minimum.

At + 125°C: 250 Megohm - Microfarads  
or 500 Megohm minimum

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

**DC Life Test:** 140% of rated voltage for 250 hours  
@ + 125°C. No open or short circuits. No visible damage.  
Maximum Δ CAP ± 5%.  
Minimum IR = 30% of initial limit.  
Maximum DF = 0.5%.

**Humidity Test:** 95% relative humidity @ + 40°C for  
240 hours. No visible damage.  
Maximum Δ CAP ± 5%.  
Minimum IR = 50% of initial limit.  
Maximum DF = 0.5%.

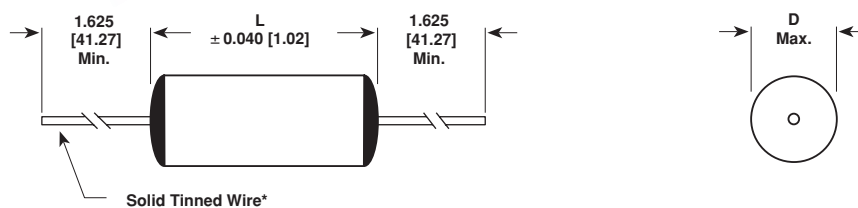
### PHYSICAL CHARACTERISTICS

**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" [1.57mm] of center line at egress but not less than 0.031" [0.79mm] from edge.

### AC VOLTAGE RATING (- 55°C to + 105°C Ambient)

| DC VOLTAGE RATING |                         | EQUIVALENT VAC rms RATINGS @ |       |        |        |        |
|-------------------|-------------------------|------------------------------|-------|--------|--------|--------|
|                   |                         | 400Hz                        | 800Hz | 1200Hz | 1600Hz | 2000Hz |
| 50                | (0.33μF through 5.6μF)  | 25.0                         | 20.0  | 15.0   | 12.0   | 10.0   |
|                   | (6.8μF through 10.0μF)  | 20.0                         | 18.0  | 12.0   | 10.0   | 8.0    |
| 100               | (0.15μF through 5.0μF)  | 65.0                         | 45.0  | 35.0   | 30.0   | 25.0   |
|                   | (6.8μF through 12.0μF)  | 40.0                         | 30.0  | 25.0   | 20.0   | 18.0   |
| 200               | (0.056μF through 2.0μF) | 120.0                        | 85.0  | 65.0   | 55.0   | 50.0   |
|                   | (2.2μF through 5.0μF)   | 95.0                         | 65.0  | 55.0   | 45.0   | 40.0   |
| 400               | (0.022μF through 1.2μF) | 200.0                        | 140.0 | 115.0  | 100.0  | 90.0   |
|                   | (1.5μF through 2.0μF)   | 165.0                        | 110.0 | 90.0   | 80.0   | 70.0   |

# Type 632P

Vishay Sprague



| <b>STANDARD RATINGS</b> in inches [millimeters] |               |               |               |                 |  |
|---|---------------|---------------|---------------|-----------------|--|
| CAPACITANCE<br>( $\mu$ F)                       | PART NUMBER** | CASE SIZE     |               | LEAD<br>AWG NO. |  |
|   |               | D             | L             |                 |  |
| <b>50 WVDC</b>                                  |               |               |               |                 |  |
| 0.01*   | 632P103X9050  | 0.170 [4.32]  | 0.440 [11.18] | 24              |  |
| 0.012   | 632P123X9050  | 0.170 [4.32]  | 0.440 [11.18] | 24              |  |
| 0.015   | 632P153X9050  | 0.170 [4.32]  | 0.440 [11.18] | 24              |  |
| 0.018   | 632P183X9050  | 0.170 [4.32]  | 0.440 [11.18] | 24              |  |
| 0.02  | 632P203X9050  | 0.170 [4.32]  | 0.440 [11.18] | 24              |  |
| 0.022*  | 632P223X9050  | 0.170 [4.32]  | 0.440 [11.18] | 24              |  |
| 0.027   | 632P273X9050  | 0.170 [4.32]  | 0.440 [11.18] | 24              |  |
| 0.033*  | 632P333X9050  | 0.170 [4.32]  | 0.440 [11.18] | 24              |  |
| 0.039   | 632P393X9050  | 0.170 [4.32]  | 0.440 [11.18] | 24              |  |
| 0.047*  | 632P473X9050  | 0.170 [4.32]  | 0.440 [11.18] | 24              |  |
| 0.056   | 632P563X9050  | 0.170 [4.32]  | 0.440 [11.18] | 24              |  |
| 0.068   | 632P683X9050  | 0.170 [4.32]  | 0.560 [14.22] | 24              |  |
| 0.082   | 632P823X9050  | 0.170 [4.32]  | 0.560 [14.22] | 24              |  |
| 0.10*   | 632P104X9050  | 0.190 [4.83]  | 0.560 [14.22] | 24              |  |
| 0.12  | 632P124X9050  | 0.190 [4.83]  | 0.560 [14.22] | 24              |  |
| 0.15*   | 632P154X9050  | 0.230 [5.84]  | 0.440 [11.18] | 22              |  |
| 0.18  | 632P184X9050  | 0.230 [5.84]  | 0.560 [14.22] | 22              |  |
| 0.2   | 632P204X9050  | 0.230 [5.84]  | 0.560 [14.22] | 22              |  |
| 0.22*   | 632P224X9050  | 0.230 [5.84]  | 0.560 [14.22] | 22              |  |
| 0.27  | 632P274X9050  | 0.230 [5.84]  | 0.560 [14.22] | 22              |  |
| 0.33*   | 632P334X9050  | 0.250 [6.35]  | 0.560 [14.22] | 22              |  |
| 0.39  | 632P394X9050  | 0.250 [6.35]  | 0.560 [14.22] | 22              |  |
| 0.47*   | 632P474X9050  | 0.310 [7.87]  | 0.560 [14.22] | 22              |  |
| 0.50  | 632P504X9050  | 0.310 [7.87]  | 0.560 [14.22] | 22              |  |
| 0.56  | 632P564X9050  | 0.310 [7.87]  | 0.560 [14.22] | 22              |  |
| 0.68*   | 632P684X9050  | 0.310 [7.87]  | 0.560 [14.22] | 22              |  |
| 0.82  | 632P824X9050  | 0.270 [6.86]  | 0.750 [19.05] | 22              |  |
| 1.0*  | 632P105X9050  | 0.310 [7.87]  | 0.750 [19.05] | 22              |  |
| 1.2   | 632P125X9050  | 0.350 [8.89]  | 0.750 [19.05] | 20              |  |
| 1.5*  | 632P155X9050  | 0.350 [8.89]  | 0.750 [19.05] | 20              |  |
| 1.8   | 632P185X9050  | 0.370 [9.40]  | 0.750 [19.05] | 20              |  |
| 2.0*  | 632P205X9050  | 0.400 [10.16] | 0.750 [19.05] | 20              |  |
| 2.2*  | 632P225X9050  | 0.400 [10.16] | 0.750 [19.05] | 20              |  |
| 2.7   | 632P275X9050  | 0.400 [10.16] | 1.000 [25.40] | 20              |  |
| 3.0   | 632P305X9050  | 0.400 [10.16] | 1.000 [25.40] | 20              |  |
| 3.3   | 632P335X9050  | 0.400 [10.16] | 1.000 [25.40] | 20              |  |
| 3.9   | 632P395X9050  | 0.400 [10.16] | 1.250 [31.75] | 20              |  |
| 4.7*  | 632P475X9050  | 0.450 [11.43] | 1.250 [31.75] | 20              |  |
| 5.0   | 632P505X9050  | 0.500 [12.70] | 1.250 [31.75] | 20              |  |
| 5.6   | 632P565X9050  | 0.550 [13.97] | 1.000 [25.40] | 20              |  |
| 6.0   | 632P605X9050  | 0.550 [13.97] | 1.000 [25.40] | 20              |  |
| 6.8   | 632P685X9050  | 0.600 [15.24] | 1.000 [25.40] | 20              |  |
| 8.0   | 632P825X9050  | 0.550 [12.70] | 1.310 [33.27] | 20              |  |
| 10.0*   | 632P106X9050  | 0.600 [15.24] | 1.310 [33.27] | 20              |  |

\* 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"; for  $\pm$  2%, from "X9" to "X2".



| <b>STANDARD RATINGS</b> in inches [millimeters] |              |               |               |                 |
|---|--------------|---------------|---------------|-----------------|
| CAPACITANCE<br>( $\mu$ F)                       | PART NUMBER* | CASE SIZE     |               | LEAD<br>AWG NO. |
|   |              | D             | L             |                 |
| <b>100 WVDC</b>                                 |              |               |               |                 |
| 0.01  | 632P103X9100 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.012   | 632P123X9100 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.015   | 632P153X9100 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.018   | 632P183X9100 | 0.190 [4.83]  | 0.440 [11.18] | 24              |
| 0.02  | 632P203X9100 | 0.190 [4.83]  | 0.440 [11.18] | 24              |
| 0.022   | 632P223X9100 | 0.190 [4.83]  | 0.440 [11.18] | 24              |
| 0.027   | 632P273X9100 | 0.190 [4.83]  | 0.440 [11.18] | 24              |
| 0.033   | 632P333X9100 | 0.190 [4.83]  | 0.440 [11.18] | 24              |
| 0.039   | 632P393X9100 | 0.170 [4.32]  | 0.560 [14.22] | 24              |
| 0.047   | 632P473X9100 | 0.190 [4.83]  | 0.560 [14.22] | 24              |
| 0.050   | 632P503X9100 | 0.190 [4.83]  | 0.560 [14.22] | 24              |
| 0.056   | 632P563X9100 | 0.190 [4.83]  | 0.560 [14.22] | 24              |
| 0.068   | 632P683X9100 | 0.230 [5.84]  | 0.560 [14.22] | 22              |
| 0.082   | 632P823X9100 | 0.230 [5.84]  | 0.560 [14.22] | 22              |
| 0.10  | 632P104X9100 | 0.230 [5.84]  | 0.560 [14.22] | 22              |
| 0.12  | 632P124X9100 | 0.230 [5.84]  | 0.560 [14.22] | 22              |
| 0.15  | 632P154X9100 | 0.310 [7.87]  | 0.560 [14.22] | 22              |
| 0.18  | 632P184X9100 | 0.230 [5.84]  | 0.750 [19.05] | 22              |
| 0.20  | 632P204X9100 | 0.230 [5.84]  | 0.750 [19.05] | 22              |
| 0.22  | 632P224X9100 | 0.250 [6.35]  | 0.750 [19.05] | 22              |
| 0.27  | 632P274X9100 | 0.310 [7.87]  | 0.750 [19.05] | 22              |
| 0.33  | 632P334X9100 | 0.310 [7.87]  | 0.750 [19.05] | 22              |
| 0.39  | 632P394X9100 | 0.310 [7.87]  | 0.750 [19.05] | 22              |
| 0.47  | 632P474X9100 | 0.370 [9.40]  | 0.750 [19.05] | 20              |
| 0.50  | 632P504X9100 | 0.370 [9.40]  | 0.750 [19.05] | 20              |
| 0.56  | 632P564X9100 | 0.370 [9.40]  | 0.750 [19.05] | 20              |
| 0.68  | 632P684X9100 | 0.400 [10.16] | 0.750 [19.05] | 20              |
| 0.82  | 632P824X9100 | 0.370 [9.40]  | 1.000 [25.40] | 20              |
| 1.0   | 632P105X9100 | 0.400 [10.16] | 1.000 [25.40] | 20              |
| 1.2   | 632P125X9100 | 0.400 [10.16] | 1.000 [25.40] | 20              |
| 1.5   | 632P155X9100 | 0.450 [11.43] | 1.000 [25.40] | 20              |
| 1.8   | 632P185X9100 | 0.450 [11.43] | 1.000 [25.40] | 20              |
| 2.0   | 632P205X9100 | 0.450 [11.43] | 1.000 [25.40] | 20              |
| 2.2   | 632P225X9100 | 0.500 [12.70] | 1.000 [25.40] | 20              |
| 2.7   | 632P275X9100 | 0.500 [12.70] | 1.250 [31.79] | 20              |
| 3.0   | 632P305X9100 | 0.500 [12.70] | 1.250 [31.79] | 20              |
| 3.3   | 632P335X9100 | 0.450 [11.43] | 1.500 [38.10] | 20              |
| 3.9   | 632P395X9100 | 0.500 [12.70] | 1.500 [38.10] | 20              |
| 4.7   | 632P475X9100 | 0.600 [15.24] | 1.310 [33.27] | 20              |
| 5.0   | 632P505X9100 | 0.600 [15.24] | 1.310 [33.27] | 20              |
| <b>200 WVDC</b>                                 |              |               |               |                 |
| 0.001   | 632P102X9200 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.0012  | 632P122X9200 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.0015  | 632P152X9200 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.0018  | 632P182X9200 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.002   | 632P202X9200 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.0022  | 632P222X9200 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.0027  | 632P272X9200 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.0033  | 632P332X9200 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.0039  | 632P392X9200 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.0047  | 632P472X9200 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.005   | 632P502X9200 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.0056  | 632P562X9200 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.0068  | 632P682X9200 | 0.170 [4.32]  | 0.440 [11.18] | 24              |
| 0.0082  | 632P822X9200 | 0.170 [4.32]  | 0.440 [11.18] | 24              |

\* 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"; for  $\pm 2\%$ , from "X9" to "X2".

# Type 632P

Vishay Sprague



| <b>STANDARD RATINGS</b> in inches [millimeters] |              |               |               |                 |
|---|--------------|---------------|---------------|-----------------|
| CAPACITANCE<br>( $\mu$ F)                       | PART NUMBER* | CASE SIZE     |               | LEAD<br>AWG NO. |
|   |              | D             | L             |                 |
| <b>200 WVDC</b>                                 |              |               |               |                 |
| 0.01  | 632P103X9200 | 0.190 [4.83]  | 0.560 [14.22] | 24              |
| 0.012   | 632P123X9200 | 0.190 [4.83]  | 0.560 [14.22] | 24              |
| 0.015   | 632P153X9200 | 0.190 [4.83]  | 0.560 [14.22] | 24              |
| 0.018   | 632P183X9200 | 0.190 [4.83]  | 0.560 [14.22] | 24              |
| 0.02  | 632P203X9200 | 0.190 [4.83]  | 0.560 [14.22] | 24              |
| 0.022   | 632P223X9200 | 0.190 [4.83]  | 0.560 [14.22] | 24              |
| 0.027   | 632P273X9200 | 0.230 [5.84]  | 0.560 [14.22] | 22              |
| 0.033   | 632P333X9200 | 0.230 [5.84]  | 0.560 [14.22] | 22              |
| 0.039   | 632P393X9200 | 0.230 [5.84]  | 0.560 [14.22] | 22              |
| 0.047   | 632P473X9200 | 0.230 [5.84]  | 0.560 [14.22] | 22              |
| 0.05  | 632P503X9200 | 0.250 [6.35]  | 0.560 [14.22] | 22              |
| 0.056   | 632P563X9200 | 0.270 [6.86]  | 0.560 [14.22] | 22              |
| 0.068   | 632P683X9200 | 0.270 [6.86]  | 0.560 [14.22] | 22              |
| 0.082   | 632P823X9200 | 0.310 [7.87]  | 0.560 [14.22] | 22              |
| 0.10  | 632P104X9200 | 0.310 [7.87]  | 0.560 [14.22] | 22              |
| 0.12  | 632P124X9200 | 0.270 [6.86]  | 0.750 [19.05] | 22              |
| 0.15  | 632P154X9200 | 0.310 [7.87]  | 0.750 [19.05] | 22              |
| 0.18  | 632P184X9200 | 0.310 [7.87]  | 0.750 [19.05] | 22              |
| 0.20  | 632P204X9200 | 0.350 [8.89]  | 0.750 [19.05] | 20              |
| 0.22  | 632P224X9200 | 0.350 [8.89]  | 0.750 [19.05] | 20              |
| 0.27  | 632P274X9200 | 0.350 [8.89]  | 1.000 [25.40] | 20              |
| 0.33  | 632P334X9200 | 0.370 [9.40]  | 1.000 [25.40] | 20              |
| 0.39  | 632P394X9200 | 0.400 [10.16] | 1.000 [25.40] | 20              |
| 0.47  | 632P474X9200 | 0.400 [10.16] | 1.000 [25.40] | 20              |
| 0.50  | 632P504X9200 | 0.400 [10.16] | 1.000 [25.40] | 20              |
| 0.56  | 632P564X9200 | 0.450 [11.43] | 1.000 [25.40] | 20              |
| 0.68  | 632P684X9200 | 0.450 [11.43] | 1.000 [25.40] | 20              |
| 0.82  | 632P824X9200 | 0.500 [12.70] | 1.000 [25.40] | 20              |
| 1.0   | 632P105X9200 | 0.550 [13.97] | 1.000 [25.40] | 20              |
| 1.2   | 632P125X9200 | 0.500 [12.70] | 1.250 [31.75] | 20              |
| 1.5   | 632P155X9200 | 0.500 [12.70] | 1.250 [31.75] | 20              |
| 1.8   | 632P185X9200 | 0.500 [12.70] | 1.810 [45.97] | 20              |
| 2.0   | 632P205X9200 | 0.550 [13.97] | 1.810 [45.97] | 20              |
| 2.2   | 632P225X9200 | 0.550 [13.97] | 1.810 [45.97] | 20              |
| 2.7   | 632P275X9200 | 0.650 [16.51] | 1.560 [39.62] | 20              |
| 3.0   | 632P305X9200 | 0.700 [17.78] | 1.560 [39.62] | 20              |
| 3.3   | 632P335X9200 | 0.700 [17.78] | 1.810 [45.97] | 20              |
| 4.0   | 632P405X9200 | 0.750 [19.05] | 1.810 [45.97] | 20              |
| 4.7   | 632P475X9200 | 0.750 [19.05] | 2.060 [52.32] | 20              |
| 5.0   | 632P505X9200 | 0.750 [19.05] | 2.060 [52.32] | 20              |
| <b>400 WVDC</b>                                 |              |               |               |                 |
| 0.001   | 632P102X9400 | 0.190 [4.83]  | 0.440 [11.18] | 24              |
| 0.0012  | 632P122X9400 | 0.190 [4.83]  | 0.440 [11.18] | 24              |
| 0.0015  | 632P152X9400 | 0.190 [4.83]  | 0.440 [11.18] | 24              |
| 0.0018  | 632P182X9400 | 0.190 [4.83]  | 0.440 [11.18] | 24              |
| 0.002   | 632P202X9400 | 0.190 [4.83]  | 0.440 [11.18] | 24              |
| 0.0022  | 632P222X9400 | 0.190 [4.83]  | 0.440 [11.18] | 24              |
| 0.0033  | 632P332X9400 | 0.230 [5.84]  | 0.440 [11.18] | 22              |
| 0.0039  | 632P392X9400 | 0.230 [5.84]  | 0.440 [11.18] | 22              |
| 0.0047  | 632P472X9400 | 0.230 [5.84]  | 0.440 [11.18] | 22              |
| 0.005   | 632P502X9400 | 0.230 [5.84]  | 0.440 [11.18] | 22              |
| 0.0056  | 632P562X9400 | 0.230 [5.84]  | 0.440 [11.18] | 22              |
| 0.0068  | 632P682X9400 | 0.230 [5.84]  | 0.560 [14.22] | 22              |
| 0.0082  | 632P822X9400 | 0.230 [5.84]  | 0.560 [14.22] | 22              |
| 0.01  | 632P103X9400 | 0.230 [5.84]  | 0.560 [14.22] | 22              |

\* 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"; for  $\pm 2\%$ , from "X9" to "X2".



| <b>STANDARD RATINGS</b> in inches [millimeters] |              |               |               |                 |
|---|--------------|---------------|---------------|-----------------|
| CAPACITANCE<br>( $\mu$ F)                       | PART NUMBER* | CASE SIZE     |               | LEAD<br>AWG NO. |
|   |              | D             | L             |                 |
| <b>400 WVDC</b>                                 |              |               |               |                 |
| 0.012   | 632P123X9400 | 0.250 [6.35]  | 0.560 [14.22] | 22              |
| 0.015   | 632P153X9400 | 0.230 [5.84]  | 0.750 [19.05] | 22              |
| 0.018   | 632P183X9400 | 0.270 [6.86]  | 0.750 [19.05] | 22              |
| 0.02  | 632P203X9400 | 0.310 [7.87]  | 0.750 [19.05] | 22              |
| 0.022   | 632P223X9400 | 0.310 [7.87]  | 0.750 [19.05] | 22              |
| 0.027   | 632P273X9400 | 0.310 [7.87]  | 0.750 [19.05] | 22              |
| 0.033   | 632P333X9400 | 0.310 [7.87]  | 0.750 [19.05] | 22              |
| 0.039   | 632P393X9400 | 0.310 [7.87]  | 0.750 [19.05] | 22              |
| 0.047   | 632P473X9400 | 0.400 [10.16] | 0.750 [19.05] | 20              |
| 0.050   | 632P503X9400 | 0.400 [10.16] | 0.750 [19.05] | 20              |
| 0.056   | 632P563X9400 | 0.400 [10.16] | 0.750 [19.05] | 20              |
| 0.068   | 632P683X9400 | 0.400 [10.16] | 0.750 [19.05] | 20              |
| 0.082   | 632P823X9400 | 0.370 [9.40]  | 1.000 [25.40] | 20              |
| 0.10  | 632P104X9400 | 0.400 [10.16] | 1.000 [25.40] | 20              |
| 0.12  | 632P124X9400 | 0.400 [10.16] | 1.000 [25.40] | 20              |
| 0.15  | 632P154X9400 | 0.400 [10.16] | 1.250 [31.75] | 20              |
| 0.18  | 632P184X9400 | 0.450 [11.43] | 1.250 [31.75] | 20              |
| 0.20  | 632P204X9400 | 0.500 [12.70] | 1.250 [31.75] | 20              |
| 0.22  | 632P224X9400 | 0.500 [12.70] | 1.250 [31.75] | 20              |
| 0.27  | 632P274X9400 | 0.550 [13.97] | 1.310 [33.27] | 20              |
| 0.33  | 632P334X9400 | 0.550 [13.97] | 1.310 [33.27] | 20              |
| 0.39  | 632P394X9400 | 0.500 [12.70] | 1.810 [45.97] | 20              |
| 0.47  | 632P474X9400 | 0.550 [13.97] | 1.810 [45.97] | 20              |
| 0.50  | 632P504X9400 | 0.550 [13.97] | 1.810 [45.97] | 20              |
| 0.56  | 632P564X9400 | 0.600 [15.24] | 1.810 [45.97] | 20              |
| 0.68  | 632P684X9400 | 0.650 [16.51] | 1.810 [45.97] | 20              |
| 0.82  | 632P824X9400 | 0.700 [17.78] | 1.810 [45.97] | 20              |
| 1.0   | 632P105X9400 | 0.750 [19.05] | 1.810 [45.97] | 20              |
| 1.2   | 632P125X9400 | 0.900 [22.86] | 1.810 [45.97] | 20              |
| 1.5   | 632P155X9400 | 0.900 [22.86] | 2.310 [58.70] | 20              |
| 1.8   | 632P185X9400 | 0.950 [24.13] | 2.310 [58.70] | 20              |
| 2.0   | 632P205X9400 | 1.000 [25.40] | 2.310 [58.70] | 20              |

\* 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"; for  $\pm 2\%$ , from "X9" to "X2."

| <b>ORDERING INFORMATION</b> |  |   |                                 |
|-----------------------------|--|---|---------------------------------|
| <b>632P</b><br>TYPE         | <b>103</b><br>CAPACITANCE  | <b>X9</b><br>CAPACITANCE<br>TOLERANCE               | <b>050</b><br>DC VOLTAGE RATING |
|                             | This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow. Values must conform to the decade rating for the tolerance specified. | X9 = $\pm 10\%$<br>X5 = $\pm 5\%$<br>X2 = $\pm 2\%$ | This is expressed in volts.     |

**BECAUSE OF A WORLDWIDE SHORTAGE OF METALIZED POLYCARBONATE FILM, CERTAIN PART NUMBERS IN THE 632P SERIES MAY NOT BE AVAILABLE. PLEASE CHECK THE FACTORY FOR AVAILABILITY.**