

# Type PVC Polyester and Polypropylene Film/Foil Capacitors

## Polyester Film/Foil (100 V– 1000 V) and Polypropylene Film/Foil (1200 V - 2000 V)



The Type PVC is a sturdy film and extended foil construction ideal for bypass and coupling applications. Extended foil construction is as good as it gets for low DF and high current applications. The PVC is encapsulated in a rugged, flame retardant, epoxy coating with the leads crimped to provide secure seating on printed circuit boards.

### Highlights

- ◆ RoHS Compliant
- ◆ Rugged epoxy case material meets UL94V0
- ◆ Film/foil polyester 100 – 1000 Vdc
- ◆ Film/foil polypropylene - 1200 Vdc to 2000 Vdc
- ◆ Non-inductively wound
- ◆ Non-polar
- ◆ Crimped leads for secure PC board insertion
- ◆ Lead material: tinned copper clad steel

### Specifications

**Capacitance Range:** 0.001  $\mu$ F to 1.0  $\mu$ F

**Capacitance Tolerance:**  $\pm 10\%$

**Voltage Range:** Polyester: 100 Vdc to 1000 Vdc (70 Vac – 200 Vac 50/60 Hz)

Polypropylene: 1200 Vdc to 2000 Vdc (475 Vac – 500 Vac 50/60 Hz)

**Operating Temperature Range:** Polyester:  $-55^{\circ}\text{C}$  to  $+125^{\circ}\text{C}$

Polypropylene:  $-55^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$

(Full rated voltage up to  $85^{\circ}\text{C}$ . Derate linearly to 50% rated voltage at max temperature)

**Insulation Resistance (IR):** Polyester: 100,000  $\text{M}\Omega$  for  $\leq 0.25 \mu\text{F}$ , 25,000  $\text{M}\Omega \cdot \mu\text{F}$  for  $\geq 0.25 \mu\text{F}$

Polypropylene: 400,000  $\text{M}\Omega$  for  $\leq 0.50 \mu\text{F}$ , 200,000  $\text{M}\Omega \cdot \mu\text{F}$  for  $\geq 0.50 \mu\text{F}$

After 2 minutes at rated voltage or 500V whichever is less.  $+25^{\circ}\text{C}$

0.75% max for  $<1200 \text{ V}$ , 0.1% max for  $\geq 1200 \text{ V}$ .  $+25^{\circ}\text{C}$

**Dissipation Factor (DF):** 250% rated voltage for  $<1000 \text{ V}$ , 200% rated voltage for  $\geq 1000 \text{ V}$ . 5 sec-

**Dielectric Withstand Voltage:** onds,  $+25^{\circ}\text{C}$

500 hours at  $+85^{\circ}\text{C}$ , 1.5 times rated DC voltage

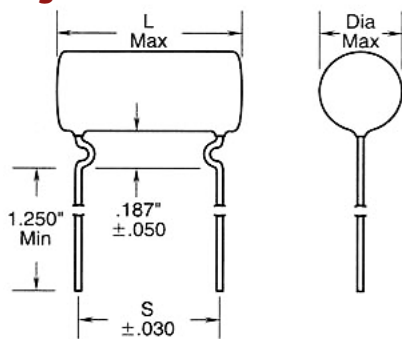
**Life Test:**



Complies with the EU Directive 2002/95/EC requirement restricting the use of Lead (Pb), Mercury (Hg), Cadmium (Cd), Hexavalent chromium (Cr(VI)), PolyBrominated Biphenyls (PBB) and PolyBrominated Diphenyl Ethers (PBDE).

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## Outline Drawing



### Lead Pull Test

Capacitor leads shall withstand a steady pull of 5 pounds applied radially to the capacitor body for 1 minute.

### Lead Bend Test

Capacitor leads shall be bent without breakage below the lead crimp, first 90° in one direction then back to the original position and then 90° in the opposite direction.

## Ratings

| Catalog<br>Part Number | Cap<br>(μF) | Inches   |            |                   |       | Millimeters |            |                   |     |
|------------------------|-------------|----------|------------|-------------------|-------|-------------|------------|-------------------|-----|
|                        |             | L<br>Max | Dia<br>Max | S<br>Lead Spacing | Ød    | L<br>Max    | Dia<br>Max | S<br>Lead Spacing | Ød  |
| 100 Vdc / 70 Vac       |             |          |            |                   |       |             |            |                   |     |
| PVC1118                | 0.018       | 0.7      | 0.33       | 0.500             | 0.032 | 17.8        | 8.4        | 12.7              | 0.8 |
| PVC1122                | 0.022       | 0.7      | 0.35       | 0.500             | 0.032 | 17.8        | 8.9        | 12.7              | 0.8 |
| PVC1127                | 0.027       | 0.7      | 0.35       | 0.500             | 0.032 | 17.8        | 8.9        | 12.7              | 0.8 |
| PVC1133                | 0.033       | 0.7      | 0.35       | 0.500             | 0.032 | 17.8        | 8.9        | 12.7              | 0.8 |
| PVC114                 | 0.040       | 0.7      | 0.35       | 0.500             | 0.032 | 17.8        | 8.9        | 12.7              | 0.8 |
| PVC1147                | 0.047       | 0.7      | 0.35       | 0.500             | 0.032 | 17.8        | 8.9        | 12.7              | 0.8 |
| PVC1156                | 0.056       | 0.7      | 0.38       | 0.500             | 0.032 | 17.8        | 9.7        | 12.7              | 0.8 |
| PVC1168                | 0.068       | 0.7      | 0.38       | 0.500             | 0.032 | 17.8        | 9.7        | 12.7              | 0.8 |
| PVC1182                | 0.082       | 0.9      | 0.40       | 0.688             | 0.032 | 22.9        | 10.2       | 17.5              | 0.8 |
| PVC101                 | 0.10        | 0.9      | 0.40       | 0.688             | 0.032 | 22.9        | 10.2       | 17.5              | 0.8 |
| PVC1015                | 0.15        | 0.9      | 0.45       | 0.688             | 0.032 | 22.9        | 11.4       | 17.5              | 0.8 |
| PVC1022                | 0.22        | 1.2      | 0.45       | 0.969             | 0.032 | 30.5        | 11.4       | 24.6              | 0.8 |
| PVC1025                | 0.25        | 1.2      | 0.50       | 0.969             | 0.032 | 30.5        | 12.7       | 24.6              | 0.8 |
| PVC1033                | 0.33        | 1.2      | 0.50       | 0.969             | 0.032 | 30.5        | 12.7       | 24.6              | 0.8 |
| PVC1039                | 0.39        | 1.6      | 0.50       | 1.344             | 0.032 | 40.6        | 12.7       | 34.1              | 0.8 |
| PVC1047                | 0.47        | 1.6      | 0.50       | 1.344             | 0.032 | 40.6        | 12.7       | 34.1              | 0.8 |
| PVC105                 | 0.50        | 1.6      | 0.60       | 1.344             | 0.032 | 40.6        | 15.2       | 34.1              | 0.8 |
| PVC1056                | 0.56        | 1.6      | 0.60       | 1.344             | 0.032 | 40.6        | 15.2       | 34.1              | 0.8 |
| PVC1068                | 0.68        | 1.6      | 0.60       | 1.344             | 0.032 | 40.6        | 15.2       | 34.1              | 0.8 |
| PVC1082                | 0.82        | 1.6      | 0.65       | 1.344             | 0.032 | 40.6        | 16.5       | 34.1              | 0.8 |
| PVC11                  | 1.00        | 1.6      | 0.70       | 1.344             | 0.032 | 40.6        | 17.8       | 34.1              | 0.8 |
| 200 Vdc / 140 Vac      |             |          |            |                   |       |             |            |                   |     |
| PVC211                 | 0.010       | 0.7      | 0.33       | 0.500             | 0.032 | 17.8        | 8.4        | 12.7              | 0.8 |
| PVC2115                | 0.015       | 0.7      | 0.33       | 0.500             | 0.032 | 17.8        | 8.4        | 12.7              | 0.8 |
| PVC2118                | 0.018       | 0.7      | 0.33       | 0.500             | 0.032 | 17.8        | 8.4        | 12.7              | 0.8 |
| PVC212                 | 0.020       | 0.7      | 0.33       | 0.500             | 0.032 | 17.8        | 8.4        | 12.7              | 0.8 |
| PVC2122                | 0.022       | 0.7      | 0.33       | 0.500             | 0.032 | 17.8        | 8.4        | 12.7              | 0.8 |
| PVC2133                | 0.033       | 0.9      | 0.38       | 0.688             | 0.032 | 22.9        | 9.7        | 17.5              | 0.8 |
| PVC2139                | 0.039       | 0.9      | 0.38       | 0.688             | 0.032 | 22.9        | 9.7        | 17.5              | 0.8 |
| PVC214                 | 0.040       | 0.9      | 0.38       | 0.688             | 0.032 | 22.9        | 9.7        | 17.5              | 0.8 |
| PVC2147                | 0.047       | 0.9      | 0.38       | 0.688             | 0.032 | 22.9        | 9.7        | 17.5              | 0.8 |
| PVC215                 | 0.050       | 0.9      | 0.38       | 0.688             | 0.032 | 22.9        | 9.7        | 17.5              | 0.8 |
| PVC2156                | 0.056       | 1.2      | 0.38       | 0.969             | 0.032 | 30.5        | 9.7        | 24.6              | 0.8 |

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## RoHS Compliant

| Catalog<br>Part Number | Cap<br>( $\mu$ F) | Inches   |            |                   |                 | Millimeters |            |                   |                 |
|------------------------|-------------------|----------|------------|-------------------|-----------------|-------------|------------|-------------------|-----------------|
|                        |                   | L<br>Max | Dia<br>Max | S<br>Lead Spacing | $\varnothing$ d | L<br>Max    | Dia<br>Max | S<br>Lead Spacing | $\varnothing$ d |
| 200 Vdc / 140 Vac      |                   |          |            |                   |                 |             |            |                   |                 |
| PVC2168                | 0.068             | 1.2      | 0.38       | 0.969             | 0.032           | 30.5        | 9.7        | 24.6              | 0.8             |
| PVC2182                | 0.082             | 1.2      | 0.40       | 0.969             | 0.032           | 30.5        | 10.2       | 24.6              | 0.8             |
| PVC201                 | 0.10              | 1.2      | 0.40       | 0.969             | 0.032           | 30.5        | 10.2       | 24.6              | 0.8             |
| PVC2015                | 0.15              | 1.2      | 0.45       | 0.969             | 0.032           | 30.5        | 11.4       | 24.6              | 0.8             |
| PVC2022                | 0.22              | 1.2      | 0.50       | 0.969             | 0.032           | 30.5        | 12.7       | 24.6              | 0.8             |
| PVC2025                | 0.25              | 1.2      | 0.50       | 0.969             | 0.032           | 30.5        | 12.7       | 24.6              | 0.8             |
| PVC2027                | 0.27              | 1.6      | 0.47       | 1.344             | 0.032           | 40.6        | 11.9       | 34.1              | 0.8             |
| PVC2033                | 0.33              | 1.6      | 0.47       | 1.344             | 0.032           | 40.6        | 11.9       | 34.1              | 0.8             |
| PVC2047                | 0.47              | 1.6      | 0.56       | 1.344             | 0.032           | 40.6        | 14.2       | 34.1              | 0.8             |
| PVC205                 | 0.50              | 1.6      | 0.56       | 1.344             | 0.032           | 40.6        | 14.2       | 34.1              | 0.8             |
| 400 Vdc / 200 Vac      |                   |          |            |                   |                 |             |            |                   |                 |
| PVC421                 | 0.0010            | 0.7      | 0.30       | 0.500             | 0.032           | 17.8        | 7.6        | 12.7              | 0.8             |
| PVC4222                | 0.0022            | 0.7      | 0.30       | 0.500             | 0.032           | 17.8        | 7.6        | 12.7              | 0.8             |
| PVC4233                | 0.0033            | 0.7      | 0.30       | 0.500             | 0.032           | 17.8        | 7.6        | 12.7              | 0.8             |
| PVC4247                | 0.0047            | 0.7      | 0.30       | 0.500             | 0.032           | 17.8        | 7.6        | 12.7              | 0.8             |
| PVC4268                | 0.0068            | 0.7      | 0.33       | 0.500             | 0.032           | 17.8        | 8.4        | 12.7              | 0.8             |
| PVC411                 | 0.010             | 0.7      | 0.35       | 0.500             | 0.032           | 17.8        | 8.9        | 12.7              | 0.8             |
| PVC412                 | 0.020             | 0.9      | 0.39       | 0.688             | 0.032           | 22.9        | 9.9        | 17.5              | 0.8             |
| PVC4133                | 0.033             | 0.9      | 0.40       | 0.688             | 0.032           | 22.9        | 10.2       | 17.5              | 0.8             |
| PVC4147                | 0.047             | 1.2      | 0.40       | 0.969             | 0.032           | 30.5        | 10.2       | 24.6              | 0.8             |
| PVC415                 | 0.050             | 1.2      | 0.45       | 0.969             | 0.032           | 30.5        | 11.4       | 24.6              | 0.8             |
| PVC4156                | 0.056             | 1.2      | 0.45       | 0.969             | 0.032           | 30.5        | 11.4       | 24.6              | 0.8             |
| PVC4168                | 0.068             | 1.2      | 0.45       | 0.969             | 0.032           | 30.5        | 11.4       | 24.6              | 0.8             |
| PVC4182                | 0.082             | 1.2      | 0.52       | 0.969             | 0.032           | 30.5        | 13.2       | 24.6              | 0.8             |
| PVC401                 | 0.10              | 1.2      | 0.53       | 0.969             | 0.032           | 30.5        | 13.5       | 24.6              | 0.8             |
| PVC4015                | 0.15              | 1.2      | 0.57       | 0.969             | 0.032           | 30.5        | 14.5       | 24.6              | 0.8             |
| PVC4018                | 0.18              | 1.6      | 0.60       | 1.344             | 0.032           | 40.6        | 15.2       | 34.1              | 0.8             |
| PVC4022                | 0.22              | 1.6      | 0.60       | 1.344             | 0.032           | 40.6        | 15.2       | 34.1              | 0.8             |
| PVC4025                | 0.25              | 1.6      | 0.65       | 1.344             | 0.032           | 40.6        | 16.5       | 34.1              | 0.8             |
| PVC4033                | 0.33              | 1.6      | 0.65       | 1.344             | 0.032           | 40.6        | 16.5       | 34.1              | 0.8             |
| PVC4039                | 0.39              | 1.6      | 0.72       | 1.344             | 0.032           | 40.6        | 18.3       | 34.1              | 0.8             |
| PVC4047                | 0.47              | 1.6      | 0.80       | 1.344             | 0.032           | 40.6        | 20.3       | 34.1              | 0.8             |
| 600 Vdc / 200 Vac      |                   |          |            |                   |                 |             |            |                   |                 |
| PVC621                 | 0.0010            | 0.7      | 0.30       | 0.500             | 0.032           | 17.8        | 7.6        | 12.7              | 0.8             |
| PVC6212                | 0.0012            | 0.7      | 0.33       | 0.500             | 0.032           | 17.8        | 8.4        | 12.7              | 0.8             |
| PVC6215                | 0.0015            | 0.7      | 0.33       | 0.500             | 0.032           | 17.8        | 8.4        | 12.7              | 0.8             |
| PVC6218                | 0.0018            | 0.7      | 0.33       | 0.500             | 0.032           | 17.8        | 8.4        | 12.7              | 0.8             |
| PVC622                 | 0.0020            | 0.7      | 0.33       | 0.500             | 0.032           | 17.8        | 8.4        | 12.7              | 0.8             |
| PVC6222                | 0.0022            | 0.7      | 0.33       | 0.500             | 0.032           | 17.8        | 8.4        | 12.7              | 0.8             |
| PVC6225                | 0.0025            | 0.7      | 0.34       | 0.500             | 0.032           | 17.8        | 8.6        | 12.7              | 0.8             |
| PVC6227                | 0.0027            | 0.7      | 0.35       | 0.500             | 0.032           | 17.8        | 8.9        | 12.7              | 0.8             |
| PVC623                 | 0.0030            | 0.7      | 0.35       | 0.500             | 0.032           | 17.8        | 8.9        | 12.7              | 0.8             |
| PVC6233                | 0.0033            | 0.7      | 0.35       | 0.500             | 0.032           | 17.8        | 8.9        | 12.7              | 0.8             |
| PVC6239                | 0.0039            | 0.7      | 0.38       | 0.500             | 0.032           | 17.8        | 9.7        | 12.7              | 0.8             |
| PVC624                 | 0.0040            | 0.7      | 0.38       | 0.500             | 0.032           | 17.8        | 9.7        | 12.7              | 0.8             |
| PVC6247                | 0.0047            | 0.7      | 0.38       | 0.500             | 0.032           | 17.8        | 9.7        | 12.7              | 0.8             |
| PVC625                 | 0.0050            | 0.7      | 0.38       | 0.500             | 0.032           | 17.8        | 9.7        | 12.7              | 0.8             |
| PVC6256                | 0.0056            | 0.7      | 0.40       | 0.500             | 0.032           | 17.8        | 10.2       | 12.7              | 0.8             |

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**RoHS Compliant**

| Catalog<br>Part Number | Cap<br>(μF) | Inches   |            |                   |       | Millimeters |            |                   |     |
|------------------------|-------------|----------|------------|-------------------|-------|-------------|------------|-------------------|-----|
|                        |             | L<br>Max | Dia<br>Max | S<br>Lead Spacing | ∅d    | L<br>Max    | Dia<br>Max | S<br>Lead Spacing | ∅d  |
| 600 Vdc / 200 Vac      |             |          |            |                   |       |             |            |                   |     |
| PVC626                 | 0.0060      | 0.7      | 0.40       | 0.500             | 0.032 | 17.8        | 10.2       | 12.7              | 0.8 |
| PVC6268                | 0.0068      | 0.7      | 0.40       | 0.500             | 0.032 | 17.8        | 10.2       | 12.7              | 0.8 |
| PVC6275                | 0.0075      | 0.7      | 0.40       | 0.500             | 0.032 | 17.8        | 10.2       | 12.7              | 0.8 |
| PVC628                 | 0.0080      | 0.9      | 0.40       | 0.688             | 0.032 | 22.9        | 10.2       | 17.5              | 0.8 |
| PVC6282                | 0.0082      | 0.9      | 0.40       | 0.688             | 0.032 | 22.9        | 10.2       | 17.5              | 0.8 |
| PVC611                 | 0.010       | 0.9      | 0.40       | 0.688             | 0.032 | 22.9        | 10.2       | 17.5              | 0.8 |
| PVC6112                | 0.012       | 0.9      | 0.40       | 0.688             | 0.032 | 22.9        | 10.2       | 17.5              | 0.8 |
| PVC6115                | 0.015       | 0.9      | 0.40       | 0.688             | 0.032 | 22.9        | 10.2       | 17.5              | 0.8 |
| PVC6118                | 0.018       | 0.9      | 0.45       | 0.688             | 0.032 | 22.9        | 11.4       | 17.5              | 0.8 |
| PVC612                 | 0.020       | 0.9      | 0.45       | 0.688             | 0.032 | 22.9        | 11.4       | 17.5              | 0.8 |
| PVC6122                | 0.022       | 0.9      | 0.45       | 0.688             | 0.032 | 22.9        | 11.4       | 17.5              | 0.8 |
| PVC6125                | 0.025       | 0.9      | 0.45       | 0.688             | 0.032 | 22.9        | 11.4       | 17.5              | 0.8 |
| PVC6127                | 0.027       | 1.2      | 0.45       | 0.969             | 0.032 | 30.5        | 11.4       | 24.6              | 0.8 |
| PVC613                 | 0.030       | 1.2      | 0.45       | 0.969             | 0.032 | 30.5        | 11.4       | 24.6              | 0.8 |
| PVC6133                | 0.033       | 1.2      | 0.45       | 0.969             | 0.032 | 30.5        | 11.4       | 24.6              | 0.8 |
| PVC6139                | 0.039       | 1.2      | 0.56       | 0.969             | 0.032 | 30.5        | 14.2       | 24.6              | 0.8 |
| PVC614                 | 0.040       | 1.2      | 0.56       | 0.969             | 0.032 | 30.5        | 14.2       | 24.6              | 0.8 |
| PVC6147                | 0.047       | 1.2      | 0.56       | 0.969             | 0.032 | 30.5        | 14.2       | 24.6              | 0.8 |
| PVC615                 | 0.050       | 1.2      | 0.56       | 0.969             | 0.032 | 30.5        | 14.2       | 24.6              | 0.8 |
| PVC6156                | 0.056       | 1.2      | 0.60       | 0.969             | 0.032 | 30.5        | 15.2       | 24.6              | 0.8 |
| PVC6168                | 0.068       | 1.2      | 0.60       | 0.969             | 0.032 | 30.5        | 15.2       | 24.6              | 0.8 |
| PVC6182                | 0.082       | 1.2      | 0.65       | 0.969             | 0.032 | 30.5        | 16.5       | 24.6              | 0.8 |
| PVC601                 | 0.10        | 1.2      | 0.65       | 0.969             | 0.032 | 30.5        | 16.5       | 24.6              | 0.8 |
| PVC6012                | 0.12        | 1.6      | 0.70       | 1.344             | 0.032 | 40.6        | 17.8       | 34.1              | 0.8 |
| PVC6015                | 0.15        | 1.6      | 0.70       | 1.344             | 0.032 | 40.6        | 17.8       | 34.1              | 0.8 |
| PVC6018                | 0.18        | 1.6      | 0.80       | 1.344             | 0.032 | 40.6        | 20.3       | 34.1              | 0.8 |
| PVC602                 | 0.20        | 1.6      | 0.80       | 1.344             | 0.032 | 40.6        | 20.3       | 34.1              | 0.8 |
| PVC6022                | 0.22        | 1.6      | 0.80       | 1.344             | 0.032 | 40.6        | 20.3       | 34.1              | 0.8 |
| PVC6025                | 0.25        | 1.6      | 0.80       | 1.344             | 0.032 | 40.6        | 20.3       | 34.1              | 0.8 |
| PVC6033                | 0.33        | 1.81     | 0.89       | 1.531             | 0.032 | 46.0        | 22.6       | 38.9              | 0.8 |
| 1000 Vdc / 200 Vac     |             |          |            |                   |       |             |            |                   |     |
| PVC1021                | 0.0010      | 0.7      | 0.33       | 0.500             | 0.032 | 17.8        | 8.4        | 12.7              | 0.8 |
| PVC10215               | 0.0015      | 0.7      | 0.33       | 0.500             | 0.032 | 17.8        | 8.4        | 12.7              | 0.8 |
| PVC10218               | 0.0018      | 0.7      | 0.35       | 0.500             | 0.032 | 17.8        | 8.9        | 12.7              | 0.8 |
| PVC10222               | 0.0022      | 0.7      | 0.35       | 0.500             | 0.032 | 17.8        | 8.9        | 12.7              | 0.8 |
| PVC10233               | 0.0033      | 0.9      | 0.35       | 0.688             | 0.032 | 22.9        | 8.9        | 17.5              | 0.8 |
| PVC10247               | 0.0047      | 0.9      | 0.40       | 0.688             | 0.032 | 22.9        | 10.2       | 17.5              | 0.8 |
| PVC10256               | 0.0056      | 0.9      | 0.43       | 0.688             | 0.032 | 22.9        | 10.9       | 17.5              | 0.8 |
| PVC10268               | 0.0068      | 0.9      | 0.43       | 0.688             | 0.032 | 22.9        | 10.9       | 17.5              | 0.8 |
| PVC10282               | 0.0082      | 0.9      | 0.48       | 0.688             | 0.032 | 22.9        | 12.2       | 17.5              | 0.8 |
| PVC1011                | 0.010       | 0.9      | 0.48       | 0.688             | 0.032 | 22.9        | 12.2       | 17.5              | 0.8 |
| PVC10115               | 0.015       | 1.2      | 0.48       | 0.969             | 0.032 | 30.5        | 12.2       | 24.6              | 0.8 |
| PVC10118               | 0.018       | 1.2      | 0.58       | 0.969             | 0.032 | 30.5        | 14.7       | 24.6              | 0.8 |
| PVC10122               | 0.022       | 1.2      | 0.58       | 0.969             | 0.032 | 30.5        | 14.7       | 24.6              | 0.8 |
| PVC10127               | 0.027       | 1.2      | 0.65       | 0.969             | 0.032 | 30.5        | 16.5       | 24.6              | 0.8 |
| PVC10133               | 0.033       | 1.2      | 0.65       | 0.969             | 0.032 | 30.5        | 16.5       | 24.6              | 0.8 |

# Type PVC Polyester and Polypropylene Film/Foil Capacitors

## RoHS Compliant

| Catalog<br>Part Number | Cap<br>(μF) | Inches   |            |                   |       | Millimeters |            |                   |     |
|------------------------|-------------|----------|------------|-------------------|-------|-------------|------------|-------------------|-----|
|                        |             | L<br>Max | Dia<br>Max | S<br>Lead Spacing | Ød    | L<br>Max    | Dia<br>Max | S<br>Lead Spacing | Ød  |
| 1000 Vdc / 200 Vac     |             |          |            |                   |       |             |            |                   |     |
| PVC10139               | 0.039       | 1.6      | 0.65       | 1.344             | 0.032 | 40.6        | 16.5       | 34.1              | 0.8 |
| PVC10147               | 0.047       | 1.6      | 0.65       | 1.344             | 0.032 | 40.6        | 16.5       | 34.1              | 0.8 |
| PVC10156               | 0.056       | 1.6      | 0.75       | 1.344             | 0.032 | 40.6        | 19.1       | 34.1              | 0.8 |
| PVC10168               | 0.068       | 1.6      | 0.75       | 1.344             | 0.032 | 40.6        | 19.1       | 34.1              | 0.8 |
| PVC10182               | 0.082       | 1.6      | 0.85       | 1.344             | 0.032 | 40.6        | 21.6       | 34.1              | 0.8 |
| PVC10010               | 0.100       | 1.6      | 0.85       | 1.344             | 0.032 | 40.6        | 21.6       | 34.1              | 0.8 |
| 1200 Vdc / 475 Vac     |             |          |            |                   |       |             |            |                   |     |
| PVC1221                | 0.0010      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC12212               | 0.0012      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC12215               | 0.0015      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC12218               | 0.0018      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC12222               | 0.0022      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC12227               | 0.0027      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC12233               | 0.0033      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC12239               | 0.0039      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC12247               | 0.0047      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC12256               | 0.0056      | 1.25     | 0.44       | 0.969             | 0.032 | 31.8        | 11.2       | 24.6              | 0.8 |
| PVC12268               | 0.0068      | 1.25     | 0.47       | 0.969             | 0.032 | 31.8        | 11.9       | 24.6              | 0.8 |
| PVC12282               | 0.0082      | 1.25     | 0.50       | 0.969             | 0.032 | 31.8        | 12.7       | 24.6              | 0.8 |
| PVC1211                | 0.010       | 1.25     | 0.53       | 0.969             | 0.032 | 31.8        | 13.5       | 24.6              | 0.8 |
| PVC12112               | 0.012       | 1.25     | 0.57       | 0.969             | 0.032 | 31.8        | 14.5       | 24.6              | 0.8 |
| PVC12115               | 0.015       | 1.25     | 0.61       | 0.969             | 0.032 | 31.8        | 15.5       | 24.6              | 0.8 |
| PVC12118               | 0.018       | 1.65     | 0.56       | 1.344             | 0.032 | 41.9        | 14.2       | 34.1              | 0.8 |
| PVC12122               | 0.022       | 1.65     | 0.60       | 1.344             | 0.032 | 41.9        | 15.2       | 34.1              | 0.8 |
| PVC12127               | 0.027       | 1.65     | 0.65       | 1.344             | 0.032 | 41.9        | 16.5       | 34.1              | 0.8 |
| PVC12133               | 0.033       | 1.65     | 0.70       | 1.344             | 0.032 | 41.9        | 17.8       | 34.1              | 0.8 |
| PVC12139               | 0.039       | 1.65     | 0.74       | 1.344             | 0.032 | 41.9        | 18.8       | 34.1              | 0.8 |
| PVC12147               | 0.047       | 1.65     | 0.80       | 1.344             | 0.032 | 41.9        | 20.3       | 34.1              | 0.8 |
| 1600 Vdc / 475 Vac     |             |          |            |                   |       |             |            |                   |     |
| PVC1621                | 0.0010      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC16215               | 0.0015      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC16222               | 0.0022      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC16227               | 0.0027      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC1623                | 0.0030      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC16233               | 0.0033      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC1624                | 0.0040      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC16247               | 0.0047      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC1625                | 0.0050      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC1626                | 0.0060      | 1.25     | 0.44       | 0.969             | 0.032 | 31.8        | 11.2       | 24.6              | 0.8 |
| PVC16268               | 0.0068      | 1.25     | 0.47       | 0.969             | 0.032 | 31.8        | 11.9       | 24.6              | 0.8 |
| PVC1627                | 0.0070      | 1.25     | 0.50       | 0.969             | 0.032 | 31.8        | 12.7       | 24.6              | 0.8 |
| PVC16275               | 0.0075      | 1.25     | 0.50       | 0.969             | 0.032 | 31.8        | 12.7       | 24.6              | 0.8 |
| PVC1628                | 0.0080      | 1.25     | 0.50       | 0.969             | 0.032 | 31.8        | 12.7       | 24.6              | 0.8 |
| PVC16282               | 0.0082      | 1.25     | 0.50       | 0.969             | 0.032 | 31.8        | 12.7       | 24.6              | 0.8 |

# Type PVC Polyester and Polypropylene Film/Foil Capacitors

RoHS Compliant

| Catalog<br>Part Number | Cap<br>(μF) | Inches   |            |                   |       | Millimeters |            |                   |     |
|------------------------|-------------|----------|------------|-------------------|-------|-------------|------------|-------------------|-----|
|                        |             | L<br>Max | Dia<br>Max | S<br>Lead Spacing | ∅d    | L<br>Max    | Dia<br>Max | S<br>Lead Spacing | ∅d  |
| 1600 Vdc / 475 Vac     |             |          |            |                   |       |             |            |                   |     |
| PVC1611                | 0.010       | 1.25     | 0.53       | 0.969             | 0.032 | 31.8        | 13.5       | 24.6              | 0.8 |
| PVC16115               | 0.015       | 1.25     | 0.61       | 1.344             | 0.032 | 33.8        | 15.5       | 34.1              | 0.8 |
| PVC1612                | 0.020       | 1.65     | 0.60       | 1.344             | 0.032 | 41.9        | 15.2       | 34.1              | 0.8 |
| PVC16122               | 0.022       | 1.65     | 0.60       | 1.344             | 0.032 | 41.9        | 15.2       | 34.1              | 0.8 |
| PVC16133               | 0.033       | 1.65     | 0.70       | 1.344             | 0.032 | 41.9        | 17.8       | 34.1              | 0.8 |
| PVC16147               | 0.047       | 1.65     | 0.80       | 1.344             | 0.032 | 41.9        | 20.3       | 34.1              | 0.8 |
| PVC1615                | 0.050       | 1.65     | 0.85       | 1.344             | 0.032 | 41.9        | 21.6       | 34.1              | 0.8 |
| 2000 Vdc / 500 Vac     |             |          |            |                   |       |             |            |                   |     |
| PVC2X21                | 0.0010      | 1.25     | 0.33       | 0.969             | 0.032 | 31.8        | 8.4        | 24.6              | 0.8 |
| PVC2X212               | 0.0012      | 1.25     | 0.34       | 0.969             | 0.032 | 31.8        | 8.6        | 24.6              | 0.8 |
| PVC2X215               | 0.0015      | 1.25     | 0.36       | 0.969             | 0.032 | 31.8        | 9.1        | 24.6              | 0.8 |
| PVC2X218               | 0.0018      | 1.25     | 0.38       | 0.969             | 0.032 | 31.8        | 9.7        | 24.6              | 0.8 |
| PVC2X222               | 0.0022      | 1.25     | 0.39       | 0.969             | 0.032 | 31.8        | 9.9        | 24.6              | 0.8 |
| PVC2X227               | 0.0027      | 1.25     | 0.42       | 0.969             | 0.032 | 31.8        | 10.7       | 24.6              | 0.8 |
| PVC2X233               | 0.0033      | 1.25     | 0.44       | 0.969             | 0.032 | 31.8        | 11.2       | 24.6              | 0.8 |
| PVC2X239               | 0.0039      | 1.25     | 0.47       | 0.969             | 0.032 | 31.8        | 11.9       | 24.6              | 0.8 |
| PVC2X247               | 0.0047      | 1.25     | 0.5        | 0.969             | 0.032 | 31.8        | 12.7       | 24.6              | 0.8 |
| PVC2X256               | 0.0056      | 1.25     | 0.53       | 0.969             | 0.032 | 31.8        | 13.5       | 24.6              | 0.8 |
| PVC2X268               | 0.0068      | 1.25     | 0.56       | 0.969             | 0.032 | 31.8        | 14.2       | 24.6              | 0.8 |
| PVC2X282               | 0.0082      | 1.25     | 0.60       | 0.969             | 0.032 | 31.8        | 15.2       | 24.6              | 0.8 |
| PVC2X11                | 0.0100      | 1.25     | 0.65       | 0.969             | 0.032 | 31.8        | 16.5       | 24.6              | 0.8 |
| PVC2X112               | 0.0120      | 1.65     | 0.58       | 1.344             | 0.032 | 41.9        | 14.7       | 34.1              | 0.8 |
| PVC2X115               | 0.0150      | 1.65     | 0.63       | 1.344             | 0.032 | 41.9        | 16.0       | 34.1              | 0.8 |
| PVC2X118               | 0.018       | 1.65     | 0.67       | 1.344             | 0.032 | 41.9        | 17.0       | 34.1              | 0.8 |
| PVC2X122               | 0.022       | 1.65     | 0.73       | 1.344             | 0.032 | 41.9        | 18.5       | 34.1              | 0.8 |
| PVC2X127               | 0.027       | 1.65     | 0.78       | 1.344             | 0.032 | 41.9        | 19.8       | 34.1              | 0.8 |
| PVC2X133               | 0.033       | 1.65     | 0.85       | 1.344             | 0.032 | 41.9        | 21.6       | 34.1              | 0.8 |

## Part Numbering System

| PVC    | 4           | 01                |
|--------|-------------|-------------------|
| Series | Voltage     | Capacitance       |
| PVC    | 1 = 100 V   | 21 = .001 $\mu$ F |
|        | 2 = 200V    | 11 = .01 $\mu$ F  |
|        | 4 = 400V    | 01 = .1 $\mu$ F   |
|        | 6 = 600V    | 1 = 1.0 $\mu$ F   |
|        | 10 = 1000 V |                   |
|        | 12 = 1200 V |                   |
|        | 16 = 1600 V |                   |
|        | 2X = 2000 V |                   |

## **Type PVC Polyester and Polypropylene Film/Foil Capacitors**

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Obsolete  
See 418P or 715P