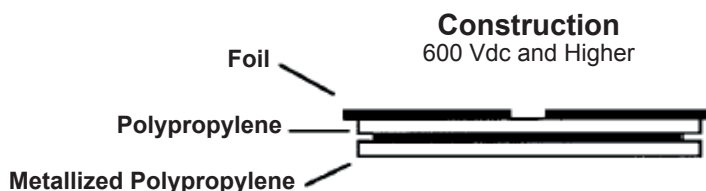


# Type 943C Very High dV/dt, Oval Polypropylene Film Capacitors

## Oval, Foil/Metallized Hybrid, Axial Leaded

**Type 943C** oval, axial film capacitors utilize a hybrid section design of polypropylene film, metal foils and metallized polypropylene dielectric to achieve both high peak current as well as superior rms current ratings. This series is ideal for high pulse operation and high peak current circuits.



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).

## Specifications

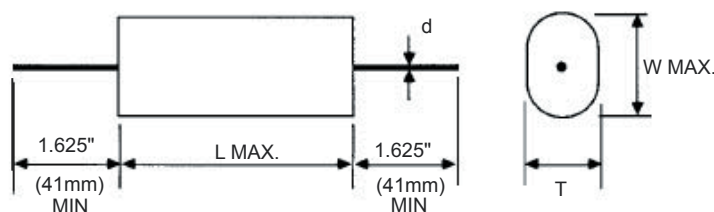
**Capacitance Range:** 0.01 to 2.5  $\mu$ F

**Voltage Range:** 600 to 2000 Vdc,  
(300 to 500 Vac, 60 Hz)

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

**Operating Temp. Range:**  $-55^{\circ}\text{C}$  to  $105^{\circ}\text{C}^*$

\*Full-rated voltage at  $85^{\circ}\text{C}$ , derate linearly to 50% rated voltage at  $105^{\circ}\text{C}$



## Ratings

| Cap.                     | Catalog Part Number | T           | W           | L           | d          | Typical ESR   | Typical ESL | dV/dt  | I <sub>peak</sub> | I <sub>RMS</sub> 70 °C |
|--------------------------|---------------------|-------------|-------------|-------------|------------|---------------|-------------|--------|-------------------|------------------------|
| ( $\mu$ F)               |                     | Inches(mm)  | Inches(mm)  | Inches(mm)  | Inches(mm) | (m $\Omega$ ) | (nH)        | (V/ms) | (A)               | 100 kHz (A)            |
| <b>600 Vdc (300 Vac)</b> |                     |             |             |             |            |               |             |        |                   |                        |
| .15                      | 943C6P15K-F         | 0.483(12.3) | 0.669(17.0) | 1.339(34.0) | 0.040(1.0) | 5             | 19          | 1427   | 214               | 8.9                    |
| .22                      | 943C6P22K-F         | 0.565(14.3) | 0.750(19.0) | 1.339(34.0) | 0.040(1.0) | 7             | 20          | 1427   | 314               | 8.1                    |
| .33                      | 943C6P33K-F         | 0.672(17.1) | 0.857(21.8) | 1.339(34.0) | 0.040(1.0) | 6             | 22          | 1427   | 471               | 9.6                    |
| .47                      | 943C6P47K-F         | 0.785(19.9) | 0.970(24.6) | 1.339(34.0) | 0.040(1.0) | 5             | 23          | 1427   | 671               | 11.4                   |
| .68                      | 943C6P68K-F         | 0.927(23.5) | 1.113(28.3) | 1.339(34.0) | 0.047(1.2) | 4             | 24          | 1427   | 970               | 14.1                   |
| 1.00                     | 943C6W1K-F          | 0.758(19.2) | 1.128(28.6) | 1.811(46.0) | 0.047(1.2) | 5             | 28          | 800    | 800               | 13.4                   |
| 1.50                     | 943C6W1P5K-F        | 0.926(23.5) | 1.296(32.9) | 1.811(46.0) | 0.047(1.2) | 4             | 30          | 800    | 1200              | 16.6                   |
| 2.00                     | 943C6W2K-F          | 0.947(24.0) | 1.318(33.5) | 2.126(54.0) | 0.047(1.2) | 3             | 33          | 628    | 1256              | 20.6                   |
| 2.20                     | 943C6W2P2K-F        | 0.993(25.2) | 1.364(34.6) | 2.126(54.0) | 0.047(1.2) | 3             | 34          | 628    | 1382              | 21.1                   |
| 2.50                     | 943C6W2P5K-F        | 1.063(27.0) | 1.437(36.5) | 2.126(54.0) | 0.047(1.2) | 3             | 35          | 628    | 1570              | 21.9                   |
| <b>850 Vdc (360 Vac)</b> |                     |             |             |             |            |               |             |        |                   |                        |
| .15                      | 943C8P15K-F         | 0.548(13.9  |             |             |            |               |             |        |                   |                        |

# Type 943C Very High dV/dt, Oval Polypropylene Film Capacitors

## Ratings

| Cap.                      | Catalog<br>Part Number | T           | W           | L           | d          | Typical<br>ESR | Typical<br>ESL | dV/dt  | I peak | I <sub>RMS</sub><br>70 °C<br>100 kHz |
|---------------------------|------------------------|-------------|-------------|-------------|------------|----------------|----------------|--------|--------|--------------------------------------|
| (μF)                      |                        | Inches(mm)  | Inches(mm)  | Inches(mm)  | Inches(mm) | (mΩ)           | (nH)           | (V/ms) | (A)    | (A)                                  |
| <b>1000 Vdc (400 Vac)</b> |                        |             |             |             |            |                |                |        |        |                                      |
| .10                       | 943C10P1K-F            | 0.569(14.4) | 0.755(19.2) | 1.339(34.0) | 0.040(1.0) | 8              | 20             | 2283   | 228    | 7.6                                  |
| .15                       | 943C10P15K-F           | 0.677(17.2) | 0.862(21.9) | 1.339(34.0) | 0.040(1.0) | 7              | 22             | 2283   | 342    | 8.9                                  |
| .22                       | 943C10P22K-F           | 0.802(20.4) | 0.987(25.1) | 1.339(34.0) | 0.040(1.0) | 6              | 23             | 2283   | 502    | 10.6                                 |
| .33                       | 943C10P33K-F           | 0.654(16.6) | 1.025(26.0) | 1.811(46.0) | 0.040(1.0) | 5              | 27             | 1280   | 422    | 12.5                                 |
| .47                       | 943C10P47K-F           | 0.777(19.7) | 1.148(29.1) | 1.811(46.0) | 0.047(1.2) | 5              | 28             | 1280   | 601    | 13.6                                 |
| .68                       | 943C10P68K-F           | 0.933(23.7) | 1.304(33.1) | 1.811(46.0) | 0.047(1.2) | 5              | 30             | 1280   | 870    | 14.9                                 |
| 1.00                      | 943C10W1K-F            | 1.002(25.4) | 1.373(34.9) | 2.126(54.0) | 0.047(1.2) | 5              | 34             | 1005   | 1005   | 16.5                                 |
| 1.40                      | 943C10W1P4K-F          | 1.035(26.3) | 1.417(36.0) | 2.520(64.0) | 0.047(1.2) | 4              | 39             | 765    | 1071   | 20.1                                 |
| <b>1200 Vdc (430 Vac)</b> |                        |             |             |             |            |                |                |        |        |                                      |
| .10                       | 943C12P1K-F            | 0.675(17.1) | 0.860(21.8) | 1.339(34.0) | 0.040(1.0) | 5              | 22             | 2854   | 285    | 10.5                                 |
| .15                       | 943C12P15K-F           | 0.807(20.5) | 0.992(25.2) | 1.339(34.0) | 0.040(1.0) | 5              | 23             | 2854   | 428    | 11.6                                 |
| .22                       | 943C12P22K-F           | 0.960(24.4) | 1.145(29.1) | 1.339(34.0) | 0.047(1.2) | 6              | 25             | 2854   | 628    | 11.7                                 |
| .33                       | 943C12P33K-F           | 0.794(20.2) | 1.165(29.6) | 1.811(46.0) | 0.047(1.2) | 6              | 28             | 1600   | 528    | 12.5                                 |
| .47                       | 943C12P47K-F           | 0.946(24.0) | 1.317(33.4) | 1.811(46.0) | 0.047(1.2) | 5              | 30             | 1600   | 752    | 15.0                                 |
| .68                       | 943C12P68K-F           | 1.008(25.6) | 1.379(35.0) | 2.126(54.0) | 0.047(1.2) | 5              | 36             | 1256   | 854    | 16.5                                 |
| .90                       | 943C12P9K-F            | 1.012(25.7) | 1.383(35.1) | 2.520(64.0) | 0.047(1.2) | 5              | 39             | 956    | 860    | 17.7                                 |
| <b>1600 Vdc (460 Vac)</b> |                        |             |             |             |            |                |                |        |        |                                      |
| .022                      | 943C16S22K-F           | 0.416(10.6) | 0.602(15.3) | 1.339(34.0) | 0.040(1.0) | 27             | 19             | 3425   | 75     | 3.5                                  |
| .033                      | 943C16S33K-F           | 0.487(12.4) | 0.673(17.1) | 1.339(34.0) | 0.040(1.0) | 14             | 20             | 3425   | 113    | 5.3                                  |
| .047                      | 943C16S47K-F           | 0.5         |             |             |            |                |                |        |        |                                      |