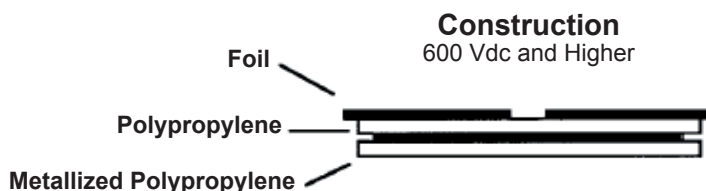


# Type 943C Very High dV/dt, Oval Polypropylene Film Capacitors

## 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

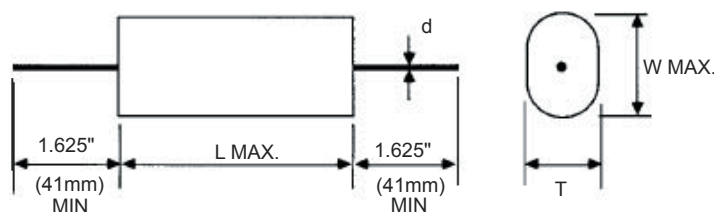
**Capacitance Range:** 0.01 to 2.5  $\mu\text{F}$

**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 peak | I <sub>RMS</sub> 70 °C |
|--------------------------|---------------------|-------------|-------------|-------------|------------|---------------|-------------|--------|--------|------------------------|
| ( $\mu\text{F}$ )        |                     | 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) | 0.733(18.6) | 1.339(34.0) | 0.040(1.0) | 5             | 20          | 1712   | 257    | 9.4                    |
| .22                      | 943C8P22K-F         | 0.644(16.4) | 0.829(21.0) | 1.339(34.0) | 0.040(1.0) | 7             | 21          | 1712   | 377    | 8.7                    |
| .33                      | 943C8P33K-F         | 0.769(19.5) | 0.954(24.2) | 1.339(34.0) | 0.040(1.0) | 6             | 23          | 1712   | 565    | 10.3                   |
| .47                      | 943C8P47K-F         | 0.902(22.9) | 1.087(27.6) | 1.339(34.0) | 0.047(1.2) | 5             | 24          | 1712   | 805    | 12.4                   |
| .68                      | 943C8P68K-F         | 1.068(27.1) | 1.254(31.8) | 1.339(34.0) | 0.047(1.2) | 4             | 26          | 1712   | 1164   | 15.3                   |
| 1.00                     | 943C8W1K-F          | 0.882(22.4) | 1.252(31.8) | 1.811(46.0) | 0.047(1.2) | 5             | 29          | 960    | 960    | 14.5                   |
| 1.50                     | 943C8W1P5K-F        | 0.956(24.3) | 1.327(33.7) | 2.126(54.0) | 0.047(1.2) | 4             | 34          | 754    | 1131   | 18.0                   |
| 2.00                     | 943C8W2K-F          | 0.972(24.7) | 1.346(34.2) | 2.520(64.0) | 0.047(1.2) | 3             | 38          | 574    | 1147   | 22.4                   |

**NOTE:** Other capacitance values, sizes and performance specifications are available. Contact us.

# 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           | 0.563(14.3) | 0.748(19.0) | 1.339(34.0) | 0.040(1.0) | 8              | 20             | 3425   | 161    | 7.6                                  |
| .068                      | 943C16S68K-F           | 0.659(16.7) | 0.844(21.4) | 1.339(34.0) | 0.040(1.0) | 6              | 21             | 3425   | 233    | 9.5                                  |
| .10                       | 943C16P1K-F            | 0.780(19.8) | 0.966(24.5) | 1.339(34.0) | 0.040(1.0) | 4              | 23             | 3425   | 342    | 12.8                                 |
| .15                       | 943C16P15K-F           | 0.636(16.1) | 1.006(25.5) | 1.811(46.0) | 0.040(1.0) | 5              | 26             | 1919   | 288    | 12.3                                 |
| .22                       | 943C16P22K-F           | 0.765(19.4) | 1.136(28.8) | 1.811(46.0) | 0.040(1.0) | 5              | 28             | 1919   | 422    | 13.5                                 |
| .33                       | 943C16P33K-F           | 0.935(23.7) | 1.306(33.2) | 1.811(46.0) | 0.047(1.2) | 5              | 30             | 1919   | 633    | 14.9                                 |
| .47                       | 943C16P47K-F           | 0.989(25.1) | 1.360(34.5) | 2.126(54.0) | 0.047(1.2) | 5              | 34             | 1507   | 708    | 16.3                                 |
| .56                       | 943C16P56K-F           | 0.957(24.3) | 1.327(33.7) | 2.520(64.0) | 0.047(1.2) | 5              | 38             | 1147   | 642    | 17.2                                 |
| .68                       | 943C16P68K-F           | 1.047(26.6) | 1.417(36.0) | 2.520(64.0) | 0.047(1.2) | 5              | 40             | 1147   | 780    | 18.0                                 |
| <b>2000 Vdc (500 Vac)</b> |                        |             |             |             |            |                |                |        |        |                                      |
| .010                      | 943C20S1K-F            | 0.411(10.4) | 0.596(15.1) | 1.339(34.0) | 0.040(1.0) | 50             | 19             | 5137   | 51     | 2.6                                  |
| .015                      | 943C20S15K-F           | 0.480(12.2) | 0.666(16.9) | 1.339(34.0) | 0.040(1.0) | 40             | 19             | 5137   | 77     | 3.1                                  |
| .022                      | 943C20S22K-F           | 0.561(14.2) | 0.747(19.0) | 1.339(34.0) | 0.040(1.0) | 20             | 20             | 5137   | 113    | 4.8                                  |
| .033                      | 943C20S33K-F           | 0.667(16.9) | 0.852(21.6) | 1.339(34.0) | 0.040(1.0) | 12             | 22             | 5137   | 170    | 6.8                                  |
| .047                      | 943C20S47K-F           | 0.525(13.3) | 0.896(22.8) | 1.811(46.0) | 0.040(1.0) | 10             | 25             | 2879   | 135    | 8.0                                  |
| .068                      | 943C20S68K-F           | 0.624(15.8) | 0.995(25.3) | 1.811(46.0) | 0.040(1.0) | 6              | 26             | 2879   | 196    | 11.2                                 |
| .10                       | 943C20P1K-F            | 0.752(19.1) | 1.122(28.5) | 1.811(46.0) | 0.047(1.2) | 5              | 28             | 2879   | 288    | 11.47                                |
| .15                       | 943C20P15K-F           | 0.918(23.3) | 1.289(32.7) | 1.811(46.0) | 0.047(1.2) | 5              | 30             | 2879   | 432    | 12.5                                 |

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