

Type 941C High dV/dt, Metallized Polypropylene Film Capacitors

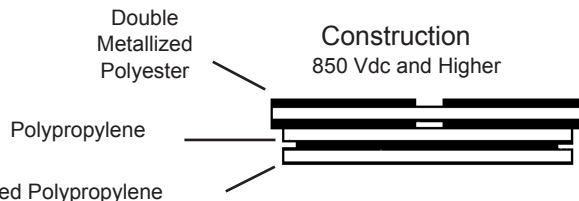
Oval Axial Leaded Capacitors



Type 941C flat, oval film capacitors are constructed with polypropylene film and dual metallized electrodes for both self healing properties and high peak current carrying capability (dV/dt). This series features low ESR characteristics, excellent high frequency and high voltage capabilities.



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

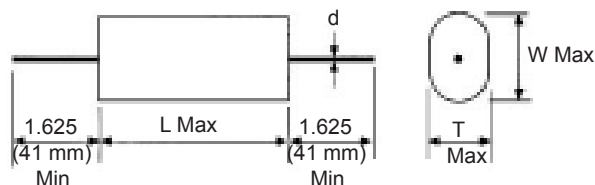
Capacitance Range: .01 μF to 4.7 μF

Voltage Range: 600 to 3000 Vdc (275 to 750 Vac, 60 Hz)

Capacitance Tolerance: $\pm 10\%$

Operating Temperature Range: $-55\text{ }^{\circ}\text{C}$ to $105\text{ }^{\circ}\text{C}$

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



Note: Refer to Application Guide for test conditions. Contact us for other capacitance values, sizes and performance specifications

Ratings

| Cap. | Catalog Part Number | T Inches (mm) | W Inches (mm) | L Inches (mm) | d Inches (mm) | Typical ESR (m Ω) | Typical ESL (nH) | dV/dt (V/ μs) | I peak (A) | I _{RMS} 70 $^{\circ}\text{C}$ 100 kHz (A) |
|--------------------------|---------------------|---------------|---------------|---------------|---------------|---------------------------|------------------|---------------------------|------------|----------------------------------------------------|
| 600 Vdc (275 Vac) | | | | | | | | | | |
| .10 | 941C6P1K-F | .223 (5.7) | .470 (11.9) | 1.339 (34.0) | .032 (0.8) | 28 | 17 | 196 | 20 | 2.8 |
| .15 | 941C6P15K-F | .266 (6.8) | .513 (13.0) | 1.339 (34.0) | .032 (0.8) | 13 | 18 | 196 | 29 | 4.4 |
| .22 | 941C6P22K-F | .318 (8.1) | .565 (14.3) | 1.339 (34.0) | .032 (0.8) | 12 | 19 | 196 | 43 | 4.9 |
| .33 | 941C6P33K-F | .387 (9.8) | .634 (16.1) | 1.339 (34.0) | .032 (0.8) | 9 | 19 | 196 | 65 | 6.1 |
| .47 | 941C6P47K-F | .462 (11.7) | .709 (18.0) | 1.339 (34.0) | .032 (0.8) | 7 | 20 | 196 | 92 | 7.6 |
| .68 | 941C6P68K-F | .558 (14.2) | .805 (20.4) | 1.339 (34.0) | .040 (1.0) | 6 | 21 | 196 | 134 | 8.9 |
| 1.0 | 941C6W1K-F | .680 (17.3) | .927 (23.5) | 1.339 (34.0) | .040 (1.0) | 6 | 23 | 196 | 196 | 9.9 |
| 1.5 | 941C6W1P5K-F | .837 (21.3) | 1.084 (27.5) | 1.339 (34.0) | .047 (1.2) | 5 | 24 | 196 | 295 | 12.1 |
| 2.0 | 941C6W2K-F | .717 (18.2) | 1.088 (27.6) | 1.811 (46.0) | .047 (1.2) | 5 | 28 | 128 | 255 | 13.1 |
| 3.3 | 941C6W3P3K-F | .886 (22.5) | 1.253 (31.8) | 2.126 (54.0) | .047 (1.2) | 4 | 34 | 105 | 346 | 17.3 |
| 4.7 | 941C6W4P7K-F | 1.125 (28.6) | 1.311 (33.3) | 2.126 (54.0) | .047 (1.2) | 4 | 36 | 105 | 492 | 18.7 |
| 850 Vdc (450 Vac) | | | | | | | | | | |
| .15 | 941C8P15K-F | .378(9.6) | .625 (15.9) | 1.339 (34.0) | .032 (0.8) | 8 | 19 | 713 | 107 | 6.4 |
| .22 | 941C8P22K-F | .458(11.6) | .705 (17.9) | 1.339 (34.0) | .032 (0.8) | 8 | 20 | 713 | 157 | 7.0 |
| .33 | 941C8P33K-F | .562(14.3) | .810 (20.6) | 1.339 (34.0) | .040 (1.0) | 7 | 21 | 713 | 235 | 8.3 |
| .47 | 941C8P47K-F | .674(17.1) | .922 (23.4) | 1.339 (34.0) | .040 (1.0) | 5 | 22 | 713 | 335 | 10.8 |
| .68 | 941C8P68K-F | .815(20.7) | 1.063 (27.0) | 1.339 (34.0) | .047 (1.2) | 4 | 24 | 713 | 485 | 13.3 |
| 1.0 | 941C8W1K-F | .679(17.2) | 1.050 (26.7) | 1.811 (46.0) | .047 (1.2) | 5 | 28 | 400 | 400 | 12.7 |
| 1.5 | 941C8W1P5K-F | .847(21.5) | 1.218 (30.9) | 1.811 (46.0) | .047 (1.2) | 4 | 30 | 400 | 600 | 15.8 |
| 2.0 | 941C8W2K-F | .990(25.1) | 1.361 (34.6) | 1.811 (46.0) | .047 (1.2) | 3 | 31 | 400 | 800 | 19.8 |
| 2.2 | 941C8W2P2K-F | 1.042(26.5) | 1.413 (35.9) | 1.811 (46.0) | .047 (1.2) | 3 | 32 | 400 | 880 | 20.4 |
| 2.5 | 941C8W2P5K-F | 1.117(28.4) | 1.488 (37.8) | 1.811 (46.0) | .047 (1.2) | 3 | 33 | 400 | 1000 | 21.2 |

NOTE: Refer to Application Guide for test conditions. Contact us for other capacitance values, sizes and performance specifications

Type 941C High dV/dt, Metallized Polypropylene Film Capacitors

| Cap. (µF) | Catalog Part Number | T Inches (mm) | W Inches (mm) | L Inches (mm) | d Inches (mm) | Typical ESR (mΩ) | Typical ESL (nH) | dV/dt (V/µs) | I peak (A) | I _{RMS} 70 °C (A) |
|---------------------------|---------------------|---------------|---------------|---------------|---------------|------------------|------------------|--------------|------------|----------------------------|
| 1000 Vdc (500 Vac) | | | | | | | | | | |
| .15 | 941C10P15K-F | .441(11.2) | .688 (17.5) | 1.339 (34.0) | .032 (0.8) | 7 | 20 | 856 | 128 | 7.4 |
| .22 | 941C10P22K-F | .535(13.6) | .782 (19.9) | 1.339 (34.0) | .040 (1.0) | 7 | 21 | 856 | 188 | 8.1 |
| .33 | 941C10P33K-F | .658(16.7) | .906 (23.0) | 1.339 (34.0) | .040 (1.0) | 6 | 22 | 856 | 283 | 9.7 |
| .47 | 941C10P47K-F | .790(20.1) | 1.037 (26.3) | 1.339 (34.0) | .047 (1.2) | 5 | 24 | 856 | 402 | 11.7 |
| .68 | 941C10P68K-F | .955(24.2) | 1.203 (30.5) | 1.339 (34.0) | .047 (1.2) | 5 | 26 | 856 | 582 | 13.0 |
| 1.0 | 941C10W1K-F | .803(20.4) | 1.174 (29.8) | 1.811 (46.0) | .047 (1.2) | 5 | 24 | 480 | 480 | 13.8 |
| 1.5 | 941C10W1P5K-F | 1.001(25.4) | 1.372 (34.8) | 1.811 (46.0) | .047 (1.2) | 4 | 31 | 480 | 720 | 17.3 |
| 2.0 | 941C10W2K-F | 1.169(29.7) | 1.540 (39.1) | 1.811 (46.0) | .047 (1.2) | 3 | 33 | 480 | 960 | 21.7 |
| 1200 Vdc (500 Vac) | | | | | | | | | | |
| .10 | 941C12P1K-F | .462(11.7) | .709 (18.0) | 1.339 (34.0) | .032 (0.8) | 9 | 20 | 1142 | 114 | 6.7 |
| .15 | 941C12P15K-F | .568(14.4) | .815 (20.7) | 1.339 (34.0) | .040 (1.0) | 7 | 21 | 1142 | 171 | 8.3 |
| .22 | 941C12P22K-F | .691(17.5) | .938 (23.8) | 1.339 (34.0) | .040 (1.0) | 7 | 23 | 1142 | 251 | 9.2 |
| .33 | 941C12P33K-F | .575(14.6) | .946 (24.0) | 1.811 (46.0) | .040 (1.0) | 7 | 21 | 640 | 211 | 10.0 |
| .47 | 941C12P47K-F | .698(17.7) | 1.069 (27.1) | 1.811 (46.0) | .047 (1.2) | 7 | 28 | 640 | 301 | 10.9 |
| .68 | 941C12P68K-F | .854(21.7) | 1.225 (31.1) | 1.811 (46.0) | .047 (1.2) | 6 | 30 | 640 | 435 | 13.0 |
| 1.0 | 941C12W1K-F | 1.053(26.7) | 1.423 (36.1) | 1.811 (46.0) | .047 (1.2) | 5 | 32 | 640 | 640 | 15.9 |
| 1.5 | 941C12W1P5K-F | 1.088(27.6) | 1.582 (40.2) | 2.126 (54.0) | .047 (1.2) | 4 | 36 | 502 | 754 | 19.7 |
| 1600 Vdc (630 Vac) | | | | | | | | | | |
| .10 | 941C16P1K-F | .565 (14.3) | .813 (20.6) | 1.339 (34.0) | .040 (1.0) | 7 | 21 | 1427 | 143 | 8.3 |
| .15 | 941C16P15K-F | .696 (17.7) | .943 (23.9) | 1.339 (34.0) | .040 (1.0) | 5 | 23 | 1427 | 214 | 11.0 |
| .22 | 941C16P22K-F | .848 (21.5) | 1.095 (27.8) | 1.339 (34.0) | .047 (1.2) | 7 | 24 | 1427 | 314 | 10.3 |
| .33 | 941C16P33K-F | .715 (18.2) | 1.086 (27.6) | 1.811 (46.0) | .047 (1.2) | 7 | 23 | 800 | 264 | 11.0 |
| .47 | 941C16P47K-F | .867 (22.0) | 1.238 (31.4) | 1.811 (46.0) | .047 (1.2) | 6 | 30 | 800 | 376 | 13.1 |
| .68 | 941C16P68K-F | 1.059 (26.9) | 1.430 (36.3) | 1.811 (46.0) | .047 (1.2) | 6 | 32 | 800 | 544 | 14.5 |
| 1.0 | 941C16W1K-F | 1.303 (33.1) | 1.674 (42.5) | 1.811 (46.0) | .047 (1.2) | 5 | 35 | 800 | 800 | 17.9 |
| 1.5 | 941C16W1P5K-F | 1.358 (34.5) | 1.852 (47.0) | 2.126 (54.0) | .047 (1.2) | 4 | 39 | 628 | 942 | 22.2 |
| 2000 Vdc (630 Vac) | | | | | | | | | | |
| .022 | 941C20S22K-F | .313 (7.9) | .561 (14.2) | 1.339 (34.0) | .032 (0.8) | 35 | 18 | 1712 | 38 | 2.8 |
| .033 | 941C20S33K-F | .382 (9.7) | .629 (16.0) | 1.339 (34.0) | .032 (0.8) | 20 | 19 | 1712 | 57 | 4.1 |
| .047 | 941C20S47K-F | .456 (11.6) | .703 (17.8) | 1.339 (34.0) | .032 (0.8) | 12 | 20 | 1712 | 80 | 5.7 |
| .068 | 941C20S68K-F | .550 (14.0) | .797 (20.2) | 1.339 (34.0) | .040 (1.0) | 8 | 21 | 1712 | 116 | 7.7 |
| .10 | 941C20P1K-F | .670 (17.0) | .917 (23.3) | 1.339 (34.0) | .040 (1.0) | 7 | 22 | 1712 | 171 | 9.1 |
| .15 | 941C20P15K-F | .557 (14.1) | .928 (23.6) | 1.811 (46.0) | .040 (1.0) | 7 | 21 | 960 | 144 | 9.8 |
| .22 | 941C20P22K-F | .686 (17.4) | 1.057 (26.8) | 1.811 (46.0) | .040 (1.0) | 8 | 28 | 960 | 211 | 10.1 |
| .33 | 941C20P33K-F | .856 (21.7) | 1.227 (31.2) | 1.811 (46.0) | .047 (1.2) | 8 | 30 | 960 | 317 | 11.3 |
| .47 | 941C20P47K-F | 1.037 (26.3) | 1.408 (35.8) | 1.811 (46.0) | .047 (1.2) | 6 | 32 | 960 | 451 | 14.4 |
| .56 | 941C20P56K-F | .941 (23.9) | 1.436 (36.5) | 2.126 (54.0) | .047 (1.2) | 7 | 31 | 754 | 422 | 13.9 |
| .68 | 941C20P68K-F | 1.050 (26.7) | 1.545 (39.2) | 2.126 (54.0) | .047 (1.2) | 6 | 35 | 754 | 513 | 15.8 |
| 1.0 | 941C20W1K-F | 1.303 (33.1) | 1.797 (45.6) | 2.126 (54.0) | .047 (1.2) | 5 | 38 | 754 | 754 | 19.4 |
| 3000 Vdc (750 Vac) | | | | | | | | | | |
| .010 | 941C30S1K-F | .308 (7.8) | .555 (14.1) | 1.339 (34.0) | .032 (0.8) | 60 | 18 | 2568 | 26 | 2.2 |
| .015 | 941C30S15K-F | .375 (9.5) | .622 (15.8) | 1.339 (34.0) | .032 (0.8) | 40 | 19 | 2568 | 39 | 2.9 |
| .022 | 941C30S22K-F | .454 (11.5) | .701 (17.8) | 1.339 (34.0) | .032 (0.8) | 25 | 20 | 2568 | 57 | 4.0 |
| .033 | 941C30S33K-F | .558 (14.2) | .805 (20.4) | 1.339 (34.0) | .040 (1.0) | 14 | 21 | 2568 | 85 | 5.8 |
| .047 | 941C30S47K-F | .446 (11.3) | .817 (20.7) | 1.811 (46.0) | .040 (1.0) | 14 | 20 | 1440 | 68 | 6.3 |
| .068 | 941C30S68K-F | .545 (13.8) | .916 (23.3) | 1.811 (46.0) | .040 (1.0) | 12 | 26 | 1440 | 98 | 7.4 |
| .10 | 941C30P1K-F | .673 (17.1) | 1.044 (26.5) | 1.811 (46.0) | .047 (1.2) | 10 | 28 | 1440 | 144 | 9.0 |
| .15 | 941C30P15K-F | .839 (21.3) | 1.210 (30.7) | 1.811 (46.0) | .047 (1.2) | 8 | 30 | 1440 | 216 | 11.2 |



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- Защита от снятия компонента с производства.



Как с нами связаться

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