

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

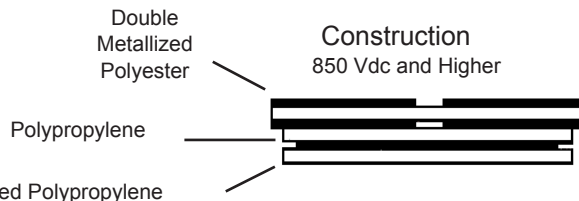
## Oval Axial Leaded Capacitors



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

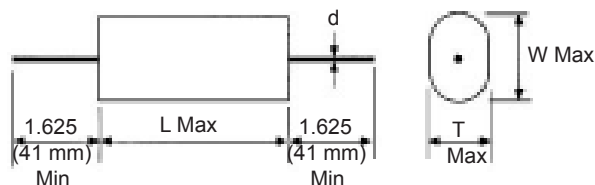
**Capacitance Range:** .01  $\mu\text{F}$  to 4.7  $\mu\text{F}$

**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 $\Omega$ )	Typical ESL (nH)	dV/dt (V/ $\mu\text{s}$ )	I peak (A)	I <sub>RMS</sub> 70 $^\circ\text{C}$ 100 kHz (A)
<b>600 Vdc (275 Vac)</b>										
.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
<b>850 Vdc (450 Vac)</b>										
.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

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Cap. ( $\mu$ F)	Catalog Part Number	T Inches(mm)	W Inches (mm)	L Inches (mm)	d Inches (mm)	Typical ESR (m $\Omega$ )	Typical ESL (nH)	dV/dt (V/ $\mu$ s)	I peak (A)	I <sub>RMS</sub> 70 °C 100 kHz (A)
<b>1000 Vdc (500 Vac)</b>										
.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
<b>1200 Vdc (500 Vac)</b>										
.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
<b>1600 Vdc (630 Vac)</b>										
.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
<b>2000 Vdc (630 Vac)</b>										
.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
<b>3000 Vdc (750 Vac)</b>										
.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