

Type 943C, Very High dV/dt, Oval Polypropylene Pulse & High-Frequency Applications Capacitors

Foil/Metallized Hybrid Axial Leads



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.

Specifications

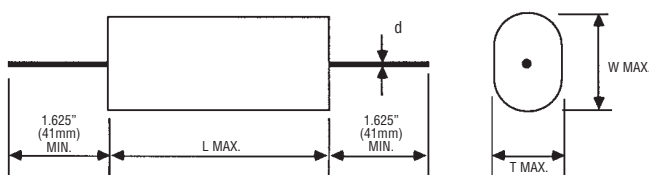
Voltage Range: 600-2000 Vdc

Capacitance Range: 0.01-2.5 μ F

Capacitance Tolerance: $\pm 10\%$

Operating Temperature Range: -55°C to 105°C*

*Full-rated voltage at 85°C—Derate linearly to 50%-rated voltage at 105°C



Construction 600 Vdc and Higher



NOTE: Request for non-listed capacitance values, size modifications and application specific requirements are welcomed by our engineering staff.

Ratings and Dimensions

Cap. μ F	Catalog Number	T Inches (mm)	W Inches (mm)	L Inches (mm)	d Inches (mm)	Typical ESR milliohms	Typical ESL nH	dV/dt V/ μ s	I peak A	IRMS A
600 Vdc (300 Vac)										
.15	943C6P15K	.483 (12.3)	.669 (17.0)	1.339 (34.0)	.040 (1.0)	5	19	1427	214	8.9
.22	943C6P22K	.565 (14.3)	.750 (19.0)	1.339 (34.0)	.040 (1.0)	7	20	1427	314	8.1
.33	943C6P33K	.672 (17.1)	.857 (21.8)	1.339 (34.0)	.040 (1.0)	6	22	1427	471	9.6
.47	943C6P47K	.785 (19.9)	.970 (24.6)	1.339 (34.0)	.040 (1.0)	5	23	1427	671	11.4
.68	943C6P68K	.927 (23.5)	1.113 (28.3)	1.339 (34.0)	.047 (1.2)	4	24	1427	970	14.1
1.00	943C6W1K	.758 (19.2)	1.128 (28.6)	1.811 (46.0)	.047 (1.2)	5	28	800	800	13.4
1.50	943C6W1P5K	.926 (23.5)	1.296 (32.9)	1.811 (46.0)	.047 (1.2)	4	30	800	1200	16.6
2.00	943C6W2K	.947 (24.0)	1.318 (33.5)	2.126 (54.0)	.047 (1.2)	3	33	628	1256	20.6
2.20	943C6W2P2K	.993 (25.2)	1.364 (34.6)	2.126 (54.0)	.047 (1.2)	3	34	628	1382	21.1
2.50	943C6W2P5K	1.063 (27.0)	1.437 (36.5)	2.126 (54.0)	.047 (1.2)	3	35	628	1570	21.9
850 Vdc (360 Vac)										
.15	943C8P15K	.548 (13.9)	.733 (18.6)	1.339 (34.0)	.040 (1.0)	5	20	1712	257	9.4
.22	943C8P22K	.644 (16.4)	.829 (21.0)	1.339 (34.0)	.040 (1.0)	7	21	1712	377	8.7
.33	943C8P33K	.769 (19.5)	.954 (24.2)	1.339 (34.0)	.040 (1.0)	6	23	1712	565	10.3
.47	943C8P47K	.902 (22.9)	1.087 (27.6)	1.339 (34.0)	.047 (1.2)	5	24	1712	805	12.4
.68	943C8P68K	1.068 (27.1)	1.254 (31.8)	1.339 (34.0)	.047 (1.2)	4	26	1712	1164	15.3
1.00	943C8W1K	.882 (22.4)	1.252 (31.8)	1.811 (46.0)	.047 (1.2)	5	29	960	960	14.5
1.50	943C8W1P5K	.956 (24.3)	1.327 (33.7)	2.126 (54.0)	.047 (1.2)	4	34	754	1131	18.0
2.00	943C8W2K	.972 (24.7)	1.346 (34.2)	2.520 (64.0)	.047 (1.2)	3	38	574	1147	22.4

Pulse, Hi-Frequency
& Snubber
Capacitors

Type 943C, Very High dV/dt, Oval Polypropylene Pulse & High-Frequency Applications Capacitors

Ratings and Dimensions

Cap. μ F	Catalog Number	T Inches (mm)	W Inches (mm)	L Inches (mm)	d Inches (mm)	Typical ESR milliohms	Typical ESL nH	dV/dt V/ μ s	I peak A	IRMS A
1000 Vdc (400 Vac)										
.100	943C10P1K	.569 (14.4)	.755 (19.2)	1.339 (34.0)	.040 (1.0)	8	20	2283	228	7.6
.150	943C10P15K	.677 (17.2)	.862 (21.9)	1.339 (34.0)	.040 (1.0)	7	22	2283	342	8.9
.220	943C10P22K	.802 (20.4)	.987 (25.1)	1.339 (34.0)	.040 (1.0)	6	23	2283	502	10.6
.330	943C10P33K	.654 (16.6)	1.025 (26.0)	1.811 (46.0)	.040 (1.0)	5	27	1280	422	12.5
.470	943C10P47K	.777 (19.7)	1.148 (29.1)	1.811 (46.0)	.047 (1.2)	5	28	1280	601	13.6
.680	943C10P68K	.933 (23.7)	1.304 (33.1)	1.811 (46.0)	.047 (1.2)	5	30	1280	870	14.9
1.000	943C10W1K	1.002 (25.4)	1.373 (34.9)	2.126 (54.0)	.047 (1.2)	5	34	1005	1005	16.5
1.400	943C10W1P4K	1.035 (26.3)	1.417 (36.0)	2.520 (64.0)	.047 (1.2)	4	39	765	1071	20.1
1200 Vdc (430 Vac)										
.100	943C12P1K	.675 (17.1)	.860 (21.8)	1.339 (34.0)	.040 (1.0)	5	22	2854	285	10.5
.150	943C12P15K	.807 (20.5)	.992 (25.2)	1.339 (34.0)	.040 (1.0)	5	23	2854	428	11.6
.220	943C12P22K	.960 (24.4)	1.145 (29.1)	1.339 (34.0)	.047 (1.2)	6	25	2854	628	11.7
.330	943C12P33K	.794 (20.2)	1.165 (29.6)	1.811 (46.0)	.047 (1.2)	6	28	1600	528	12.5
.470	943C12P47K	.946 (24.0)	1.317 (33.4)	1.811 (46.0)	.047 (1.2)	5	30	1600	752	15.0
.680	943C12P68K	1.008 (25.6)	1.379 (35.0)	2.126 (54.0)	.047 (1.2)	5	36	1256	854	16.5
.900	943C12P9K	1.012 (25.7)	1.383 (35.1)	2.520 (64.0)	.047 (1.2)	5	39	956	860	17.7
1600 Vdc (460 Vac)										
.022	943C16S22K	.416 (10.6)	.602 (15.3)	1.339 (34.0)	.040 (1.0)	27	19	3425	75	3.5
.033	943C16S33K	.487 (12.4)	.673 (17.1)	1.339 (34.0)	.040 (1.0)	14	20	3425	113	5.3
.047	943C16S47K	.563 (14.3)	.748 (19.0)	1.339 (34.0)	.040 (1.0)	8	20	3425	161	7.6
.068	943C16S68K	.659 (16.7)	.844 (21.4)	1.339 (34.0)	.040 (1.0)	6	21	3425	233	9.5
.100	943C16P1K	.780 (19.8)	.966 (24.5)	1.339 (34.0)	.040 (1.0)	4	23	3425	342	12.8
.150	943C16P15K	.636 (16.1)	1.006 (25.5)	1.811 (46.0)	.040 (1.0)	5	26	1919	288	12.3
.220	943C16P22K	.765 (19.4)	1.136 (28.8)	1.811 (46.0)	.040 (1.0)	5	28	1919	422	13.5
.330	943C16P33K	.935 (23.7)	1.306 (33.2)	1.811 (46.0)	.047 (1.2)	5	30	1919	633	14.9
.470	943C16P47K	.989 (25.1)	1.360 (34.5)	2.126 (54.0)	.047 (1.2)	5	34	1507	708	16.3
.560	943C16P56K	.957 (24.3)	1.327 (33.7)	2.520 (64.0)	.047 (1.2)	5	38	1147	642	17.2
.680	943C16P68K	1.047 (26.6)	1.417 (36.0)	2.520 (64.0)	.047 (1.2)	5	40	1147	780	18.0
2000 Vdc (500 Vac)										
.010	943C20S1K	.411 (10.4)	.596 (15.1)	1.339 (34.0)	.040 (1.0)	50	19	5137	51	2.6
.015	943C20S15K	.480 (12.2)	.666 (16.9)	1.339 (34.0)	.040 (1.0)	40	19	5137	77	3.1
.022	943C20S22K	.561 (14.2)	.747 (19.0)	1.339 (34.0)	.040 (1.0)	20	20	5137	113	4.8
.033	943C20S33K	.667 (16.9)	.852 (21.6)	1.339 (34.0)	.040 (1.0)	12	22	5137	170	6.8
.047	943C20S47K	.525 (13.3)	.896 (22.8)	1.811 (46.0)	.040 (1.0)	10	25	2879	135	8.0
.068	943C20S68K	.624 (15.8)	.995 (25.3)	1.811 (46.0)	.040 (1.0)	6	26	2879	196	11.2
.100	943C20P1K	.752 (19.1)	1.122 (28.5)	1.811 (46.0)	.047 (1.2)	5	28	2879	288	14.9
.150	943C20P15K	.918 (23.3)	1.289 (32.7)	1.811 (46.0)	.047 (1.2)	5	30	2879	432	12.5

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