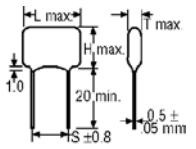
DSF, Subminiature, Polyester Metallized, Radial Leads



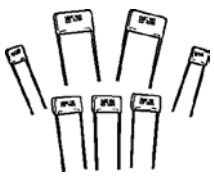
— NEW —

Type DSF film capacitors are made with stacked metallized polyester, resulting in high volumetric efficiency and a very economical solution for general purpose DC applications. Ideally suited for blocking, by-pass, coupling, decoupling, and filtering circuits. Specifically designed for applications where high density insertion of components is required. **Operating Temperature:** –40°C to +85°C. **Rated Voltage:** 50-100 Vdc. **Capacitance:** 0.1 µF to 2.2 µF. **Capacitance Tolerance:** ±5%. **Dielectric Strength:** 150%. **Dissipation Factor:** 1% max. **Insulation Resistance:** 3,000 MΩ min. xµF; 1000 M min. **Life Test:** 1000 hours @ 85°C, 125% rated voltage.

Stock No.	Mfr.'s Type	Cap. (µF)	Dimensions — In. (mm) T	H	L	S	Voltage	EACH 1-49	50-99
862-2130	DSF050J103	0.010	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)	50	**.16**	**.14**
862-2131	DSF050J123	0.012	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)	50	**.16**	**.14**
862-3132	DSF050J153	0.015	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)	50	**.17**	**.14**
862-3133	DSF050J183	0.018	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)	50	**.17**	**.15**
862-3134	DSF050J223	0.022	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)	50	**.17**	**.15**
862-2135	DSF050J273	0.027	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)	50	**.18**	**.15**
862-2136	DSF050J333	0.033	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)	50	**.18**	**.16**
862-2137	DSF050J393	0.039	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)	50	**.19**	**.16**
862-2138	DSF050J473	0.047	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)	50	**.15**	**.13**
862-2139	DSF050J563	0.056	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)	50	**.19**	**.16**
862-2140	DSF050J683	0.068	0.126 (3.2)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)	50	**.20**	**.17**
862-2141	DSF050J823	0.082	0.142 (3.6)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)	50	**.21**	**.18**
862-2142	DSF050J104	0.100	0.157 (4.0)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)	50	**.18**	**.15**
862-2143	DSF050J124	0.120	0.157 (4.0)	0.197 (5.0)	0.287 (7.3)	0.197 (5.0)	50	**.23**	**.20**
862-2144	DSF050J154	0.150	0.173 (4.4)	0.217 (5.5)	0.287 (7.3)	0.197 (5.0)	50	**.24**	**.20**
862-2145	DSF050J184	0.180	0.177 (4.5)	0.217 (5.5)	0.287 (7.3)	0.197 (5.0)	50	**.25**	**.21**
862-2146	DSF050J224	0.220	0.189 (4.8)	0.217 (5.5)	0.287 (7.3)	0.197 (5.0)	50	**.23**	**.20**
862-2147	DSF050J274	0.270	0.181 (4.6)	0.276 (7.0)	0.287 (7.3)	0.197 (5.0)	50	**.30**	**.26**
862-2148	DSF050J334	0.330	0.205 (5.2)	0.276 (7.0)	0.287 (7.3)	0.197 (5.0)	50	**.34**	**.29**
862-2149	DSF050J394	0.390	0.224 (5.7)	0.287 (7.3)	0.287 (7.3)	0.197 (5.0)	50	**.38**	**.33**
862-2150	DSF050J474	0.470	0.236 (6.0)	0.287 (7.3)	0.287 (7.3)	0.197 (5.0)	50	**.37**	**.32**
862-2151	DSF050J564	0.560	0.228 (5.8)	0.394 (10.0)	0.287 (7.3)	0.197 (5.0)	50	**.51**	**.43**
862-2152	DSF050J684	0.680	0.256 (6.5)	0.394 (10.0)	0.287 (7.3)	0.197 (5.0)	50	**.59**	**.51**
862-2153	DSF050J824	0.820	0.268 (6.8)	0.394 (10.0)	0.287 (7.3)	0.197 (5.0)	50	**.70**	**.60**
862-2154	DSF050J105	1.000	0.315 (8.0)	0.433 (11.0)	0.287 (7.3)	0.197 (5.0)	50	**.71**	**.61**
862-2155	DSF050J125	1.200	0.256 (6.5)	0.394 (10.0)	0.402 (10.2)	0.295 (7.5)	50	**1.01**	**.87**
862-2156	DSF050J155	1.500	0.283 (7.2)	0.394 (10.0)	0.402 (10.2)	0.295 (7.5)	50	**1.22**	**1.05**
862-2157	DSF050J185	1.800	0.283 (7.2)	0.472 (12.0)	0.402 (10.2)	0.295 (7.5)	50	**1.43**	**1.22**
862-2158	DSF050J225	2.200	0.311 (7.9)	0.472 (12.0)	0.402 (10.2)	0.295 (7.5)	50	**1.67**	**1.43**
862-2159	DSF100J103	0.010	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)	100	**.23**	**.20**
862-2160	DSF100J123	0.012	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)	100	**.23**	**.20**
862-2161	DSF100J153	0.015	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)	100	**.23**	**.20**
862-2162	DSF100J183	0.018	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)	100	**.23**	**.20**
862-2163	DSF100J223	0.022	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)	100	**.23**	**.20**
862-2164	DSF100J273	0.027	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)	100	**.24**	**.20**
862-2165	DSF100J333	0.033	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)	100	**.24**	**.21**
862-2166	DSF100J393	0.039	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)	100	**.24**	**.21**
862-2167	DSF100J473	0.047	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)	100	**.25**	**.22**
862-2168	DSF100J563	0.056	0.126 (3.2)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)	100	**.27**	**.23**
862-2169	DSF100J683	0.068	0.157 (4.0)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)	100	**.28**	**.24**
862-2170	DSF100J823	0.082	0.161 (4.1)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)	100	**.28**	**.24**
862-2171	DSF100J104	0.100	0.177 (4.5)	0.276 (7.0)	0.295 (7.5)	0.197 (5.0)	100	**.29**	**.25**
862-2172	DSF100J124	0.120	0.130 (3.3)	0.354 (9.0)	0.402 (10.2)	0.295 (7.5)	100	**.31**	**.26**
862-2173	DSF100J154	0.150	0.130 (3.3)	0.354 (9.0)	0.402 (10.2)	0.295 (7.5)	100	**.32**	**.27**
862-2174	DSF100J184	0.180	0.142 (3.6)	0.354 (9.0)	0.402 (10.2)	0.295 (7.5)	100	**.33**	**.28**
862-2175	DSF100J224	0.220	0.157 (4.0)	0.354 (9.0)	0.402 (10.2)	0.295 (7.5)	100	**.35**	**.30**
862-2176	DSF100J274	0.270	0.165 (4.2)	0.354 (9.0)	0.402 (10.2)	0.295 (7.5)	100	**.40**	**.34**
862-2177	DSF100J334	0.330	0.189 (4.8)	0.394 (10.0)	0.402 (10.2)	0.295 (7.5)	100	**.45**	**.38**
862-2178	DSF100J394	0.390	0.217 (5.5)	0.394 (10.0)	0.402 (10.2)	0.295 (7.5)	100	**.46**	**.39**
862-2179	DSF100J474	0.470	0.268 (6.8)	0.413 (10.5)	0.402 (10.2)	0.295 (7.5)	100	**.48**	**.41**

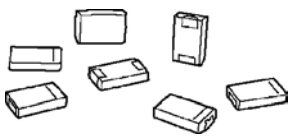
10

DME, Polyester Metallized, Radial Leads



Type DME radial-leaded, mini-dipped capacitors feature significant size reduction and performance characteristics comparable to other film capacitors that are in larger case sizes. Improvements in film technology permit the use of thinner dielectric and make this series ideal for applications where space is at a premium or tape and reeling is required. Metallized dielectric provides self-healing characteristics that help prevent shorts due to high voltage transient. **Operating Temperature:** –55°C to +125°C (Full rated volts @ +85°C, derate linearly to 50% rated voltage @ +125°C). **Capacitance Tolerance:** ±10% (K) standard, ±5% (J) optional. **Dielectric Strength:** 150%. **Dissipation Factor:** 1% max. **Insulation Resistance:** 3,000 M xµF; 9000 M min. **Life Test:** 1000 hours @ +85°C @ 125% rated voltage.

Stock No.	Mfr.'s Type	Capacitance (µF)	Dimensions — mm T Max.	H Max.	L Max.	S ±1.0	d	EACH 1-49	50-99
862-2200	DME2S1K	0.010	4.5	7.5	10.3	7.5	0.6	**.26**	**.18**
862-2201	DME2S12K	0.012	4.5	7.5	10.3	7.5	0.6	**.25**	**.17**
862-2202	DME2S15K	0.015	4.5	7.5	10.3	7.5	0.6	**.26**	**.18**
862-2203	DME2S18K	0.018	4.5	7.5	10.3	7.5	0.6	**.26**	**.18**
862-2204	DME2S22K	0.022	4.5	7.5	10.3	7.5	0.6	**.26**	**.18**
862-2205	DME2S27K	0.027	4.5	7.5	10.3	7.5	0.6	**.26**	**.18**
862-2206	DME2S33K	0.033	4.5	7.5	10.3	7.5	0.6	**.26**	**.18**
862-2207	DME2S39K	0.039	4.4	7.5	10.3	7.5	0.6	**.26**	**.18**
862-2208	DME2S47K	0.047	4.5	7.5	10.3	7.5	0.6	**.26**	**.18**
862-2209	DME2S56K	0.056	4.8	7.9	10.3	7.5	0.6	**.28**	**.19**
862-2210	DME2S68K	0.068	4.5	7.5	10.3	7.5	0.6	**.28**	**.19**
862-2211	DME2S82K	0.082	5.0	8.0	10.3	7.5	0.6	**.31**	**.20**
862-2212	DME2P1K	0.100	5.8	8.5	10.3	7.5	0.6	**.34**	**.22**
862-2213	DME2P12K	0.120	6.0	9.0	10.3	7.5	0.6	**.35**	**.23**
862-2214	DME2P15K	0.150	6.0	10.8	10.3	7.5	0.6	**.36**	**.23**
862-2215	DME2P18K	0.180	5.0	10.5	12.5	10.0	0.6	**.37**	**.24**
862-2216	DME2P22K	0.220	6.0	10.5	12.5	10.0	0.6	**.39**	**.26**
862-2217	DME2P27K	0.270	6.0	11.5	12.5	10.0	0.6	**.40**	**.26**
862-2218	DME2P33K	0.330	7.0	12.0	12.5	10.0	0.6	**.43**	**.28**
862-2219	DME2P39K	0.390	4.9	12.0	18.5	15.0	0.6	**.46**	**.30**
862-2220	DME2P47K	0.470	6.0	12.5	18.5	15.0	0.6	**.49**	**.34**



ESRD, Ultra-Low ESR, Polymer Chip, 105°C

Type ESRD capacitors are ideal for high-frequency filtering in surface mount technology power supplies and DC/DC converters. One Type ESRD chip can replace several aluminum or tantalum capacitors connected in parallel and are packaged in a low profile case (7.3 × 4.3 × 1.8 mm) with the same footprint as the industry standard tantalum "D" case size. Polymer aluminum capacitors have stable impedance and equivalent series resistance over the operating temperature range (–55 to +105 °C) and more than twice the ripple current handling capability of tantalum capacitors. **Operating Temperature:** –55°C to +105°C @ 100% rated voltage. **Rated Voltage:** 4.0, 6.3, 8.0, 12.5 and 16 VDC. **Capacitance:** 2.2 µF to 56 µF. **Capacitance Tolerance:** +20% at 120 Hz. **Leakage Current:** 4 VDC ratings — ≤0.06 CV; 6.3 thru 16 VDC ratings — ≤0.04 CV or 3.0 µA if greater. **Life Test:** 1000 hours @ 105°C with rated voltage. **Shelf Life Test:** 500 hours @ 105°C. Tape and reel available upon request.

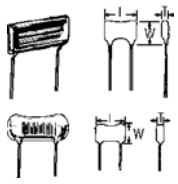
Stock No.	Mfr.'s Type	Capacitance (µF)	Voltage	Max. Impedance 400 kHz/20°C (Ω)	Max. Ripple Current 100 kHz –20°C to 100°C (ARMS)*	EACH 1-49	50-99
862-2300	ESRD560M04B	56.0	4.0	0.04	1.6	**2.18**	**1.90**
862-2301	ESRD100M06B	10.0	6.3	0.13	1.0	**1.83**	**1.57**
862-2302	ESRD220M06B	22.0	6.3	0.09	1.3	**1.89**	**1.63**
862-2303	ESRD330M06B	33.0	6.3	0.06	1.6	**2.67**	**2.30**
862-2304	ESRD470M06B	47.0	6.3	0.05	1.6	**2.33**	**2.02**
862-2305	ESRD8R2M08B	8.2	8.0	0.14	1.0	**2.05**	**1.77**
862-2306	ESRD150M08B	15.0	8.0	0.11	1.3	**2.46**	**2.12**
862-2307	ESRD220M08B	22.0	8.0	0.09	1.6	**2.67**	**2.30**
862-2308	ESRD330M08B	33.0	8.0	0.06	1.6	**2.87**	**2.48**
862-2309	ESRD4R7M12B	4.7	12.5	0.18	1.0	**2.05**	**1.77**
862-2310	ESRD100M12B	10.0	12.5	0.13	1.0	**2.46**	**2.12**
862-2311	ESRD150M12B	15.0	12.5	0.11	1.3	**2.67**	**2.30**
862-2312	ESRD220M12B	22.0	12.5	0.09	1.6	**2.87**	**2.48**
862-2313	ESRD2R2M16B	2.2	16.0	0.26	1.0	**2.05**	**1.77**
862-2314	ESRD4R7M16B	4.7	16.0	0.18	1.0	**2.46**	**2.12**
862-2315	ESRD6R8M16B	6.8	16.0	0.15	1.0	**2.67**	**2.30**
862-2316	ESRD8R2M16B	8.2	16.0	0.14	1.0	**2.33**	**2.02**

*See "Ripple Current Correction Factors for Frequency" table below.

Ripple Current Correction Factors for Frequency

Correction Factors for Sine Wave Current (+20 to 100°C)	Frequency — kHz 10	20	50	100	250	500	1000
	0.6	0.7	0.8	1.0	1.1	1.2	1.3

Dipped Mica Dielectric Capacitors



Dipped Mica Dielectric Capacitors in miniature styles (CD6 and CD7) use in delay lines and IF transformers. Other styles are larger and higher rated capacitors. All types feature a dipping process to impart high moisture and humidity resistance. All leads are copper weld for improved solderability. They are available in a wide range of sizes and ratings to meet application requirements. Units are marked with Manufacturers name or symbol, nominal capacitance in pF and percent tolerance, and DC working voltage. Miniature units (CD6 and CD7) are marked with capacitance in pF and tolerance letter designation. All have operating temperature range of –55°C to +125°C.

Stock No.	Mfr.'s Type	VDC	Cap. pF	Dimensions — mm L	W	T	EACH 1-99	100-499
862-3001	CD5CC020C03	300	2	6.9	4.8	2.8	**.61**	**.42**
862-3002	CD5CC030C03	300	3	6.9	4.8	2.8	**.67**	**.45**
862-3005	CD5CC050C03	300	5	6.9	4.8	2.8	**.67**	**.45**
862-3004	CD5CC060C03	300	6	6.9	4.8	2.8	**.64**	**.43**
862-3006	CD5CC070C03	300	7	6.9	4.8	2.8	**.64**	**.43**
862-3011	CD5CC100J03	300	10	6.9	4.8	2.8	**.57**	**.37**
862-3016	CD5EC240J03	300	24	6.9	4.8	2.8	**.60**	**.40**
862-3017	CD5EC270J03	300	27	6.9	4.8	2.8	**.59**	**.40**
862-3019	CD5EC330J03	300	33	6.9	4.8	2.8	**.73**	**.44**
862-3020	CD5EC360J03	300	36	6.9	4.8	2.8	**.74**	**.46**
862-3025	CD5EC560J03	300	56	6.9	4.8	2.8	**.88**	**.56**
862-3026	CD5EC620J03	300	62	6.9	4.8	2.8	**.90**	**.60**
862-3028	CD5EC750J03	300	75	6.9	4.8	2.8	**1.06**	**.68**
862-3029	CD5EC820J03	300	82	6.9	4.8	2.8	**1.16**	**.76**
862-3031	CD5FC101J03	300	100	6.9	4.8	2.8	**1.29**	**.83**
862-3100	CD6CD010C03	500	1	6.7	3.4	2.4	**1.05**	**.73**
862-3102	CD6CD030C03	500	3	6.7	3.4	2.4	**1.06**	**.73**
862-3103	CD6CD040C03	500	4	6.7	3.4	2.4	**1.06**	**.71**
862-3112	CD6CD180J03	500	18	6.7	3.4	2.4	**1.80**	**1.17**
862-3122	CD6ED470J03	500	47	6.7	3.4	2.4	**1.31**	**.92**
862-3155	CD7FC221J03	300	220	6.7	6.6	2.8	**2.15**	**1.48**
862-3169	CD7FA821J03	100	820	6.7	6.6	2.8	**4.34**	**2.85**
862-3211	CD10ED200J03	500	20	9.1	8.4	4.8	**.51**	**.34**
862-3227	CD10FD151J03	500	150	9.7	9.1	5.3	**.63**	**.40**
862-4000	CD15CD100J03	500	10	11.4	9.1	4.3	**.47**	**.29**
862-4002	CD15CD150J03	500	15	11.4	9.1	4.3	**.30**	**.24**
862-1512	CD15CD180J03	500	18	11.4	9.1	4.3	**.49**	**.31**
862-4004	CD15ED200J03	500	20	11.4	9.1	4.3	**.49**	**.37**
862-4005	CD15ED220J03	500	22	11.4	9.1	4.3	**.43**	**.28**
862-4006	CD15ED270J03	500	27	11.4	9.1	4.3	**.44**	**.28**
862-4009	CD15ED390J03	500	39	11.4	9.1	4.3	**.44**	**.35**
862-4010	CD15ED430J03	500	43	11.4	9.1	4.3	**.43**	**.28**
862-4012	CD15ED510J03	500	51	11.4	9.1	4.3	**.42**	**.26**
862-4013	CD15ED560J03	500	56	11.4	9.1	4.3	**.43**	**.28**
862-4018	CD15FD121J03	500	120	11.7	9.4	4.6	**.44**	**.27**
862-4023	CD15FD201J03	500	200	11.7	9.7	4.8	**.58**	**.35**
862-4024	CD15ED221J03	500	220	11.7	9.7	5.1	**.59**	**.38**
862-4026	CD15FD271J03	500	270	11.9	9.9	5.3	**.62**	**.41**
862-4027	CD15FD301J03	500	300	11.9	9.9	5.3	**.69**	**.43**
862-4063	CD19FD102J03	500	1000	16.5	13.2	5.6	**1.05**	**.64**