

Type DMT Polyester Film Capacitors

Film/Foil Radial Leads



General Purpose, High Peak Currents, High Insulation Resistance

Type DMT radial-leaded, polyester film/foil noninductively wound film capacitors feature compact size and moisture-resistive epoxy coating. High insulation resistance and low dissipation factor, Type DMT is an ideal choice for most applications, especially with high peak currents.

Specifications

Voltage Range: 100-630 Vdc (65-250 Vac, 60Hz)

Capacitance Range: .001-.68 μ F

Capacitance Tolerance: $\pm 10\%$ (K) standard
 $\pm 5\%$ (J) optional

Operating Temperature Range: -55°C to 125°C^*

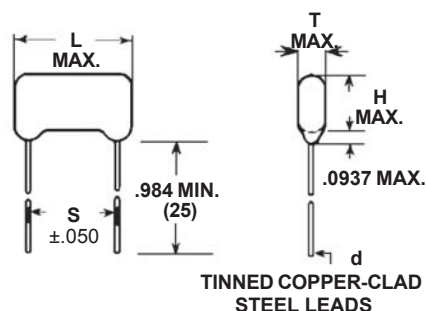
*Full-rated voltage at 85°C —Derate linearly to 50%-rated voltage at 125°C

Dielectric Strength: 250% (1 minute)

Dissipation Factor: 1% Max. (25°C , 1 kHz)

Insulation Resistance: 30,000 $\text{M}\Omega \times \mu\text{F}$
100,000 $\text{M}\Omega$ Min.

Life Test: 500 Hours at 85°C at 125% Rated Voltage



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

Ratings and Dimensions

Normally Stocked

Cap. (μ F)	Catalog Part Number	T Inches (mm)	H Inches (mm)	L Inches (mm)	S Inches (mm)	d Inches (mm)	dV/dt V/ μ s
100 Vdc (65 Vac)							
0.0010	DMT1D1K	0.197 (5.0)	0.354 (9.0)	0.512 (13.0)	0.394 (10.0)	0.024 (0.6)	4550
0.0015	DMT1D15K	0.200 (5.1)	0.354 (9.0)	0.512 (13.0)	0.394 (10.0)	0.024 (0.6)	4550
0.0022	DMT1D22K	0.210 (5.3)	0.354 (9.0)	0.512 (13.0)	0.394 (10.0)	0.024 (0.6)	4550
0.0033	DMT1D33K	0.210 (5.3)	0.354 (9.0)	0.512 (13.0)	0.394 (10.0)	0.024 (0.6)	4550
0.0047	DMT1D47K	0.210 (5.3)	0.354 (9.0)	0.512 (13.0)	0.394 (10.0)	0.024 (0.6)	4550
0.0068	DMT1D68K	0.210 (5.3)	0.354 (9.0)	0.512 (13.0)	0.394 (10.0)	0.024 (0.6)	4550
0.0100	DMT1S1K	0.220 (5.6)	0.354 (9.0)	0.512 (13.0)	0.394 (10.0)	0.024 (0.6)	4550
0.0150	DMT1S15K	0.220 (5.6)	0.370 (9.4)	0.512 (13.0)	0.394 (10.0)	0.024 (0.6)	4550
0.0220	DMT1S22K	0.256 (6.5)	0.390 (9.9)	0.512 (13.0)	0.394 (10.0)	0.024 (0.6)	4550
0.0330	DMT1S33K	0.250 (6.3)	0.350 (8.9)	0.560 (14.2)	0.400 (10.2)	0.032 (0.8)	3300
0.0470	DMT1S47K	0.260 (6.6)	0.433 (11.0)	0.560 (14.2)	0.420 (10.7)	0.032 (0.8)	3300
0.0680	DMT1S68K	0.275 (7.0)	0.460 (11.7)	0.560 (14.2)	0.420 (10.7)	0.032 (0.8)	3300
0.1000	DMT1P1K	0.290 (7.4)	0.445 (11.3)	0.682 (17.3)	0.545 (13.8)	0.032 (0.8)	2100
0.1500	DMT1P15K	0.350 (8.9)	0.490 (12.4)	0.682 (17.3)	0.545 (13.8)	0.032 (0.8)	2100
0.2200	DMT1P22K	0.360 (9.1)	0.520 (13.2)	0.820 (20.8)	0.670 (17.0)	0.032 (0.8)	1600
0.3300	DMT1P33K	0.390 (9.9)	0.560 (14.2)	0.942 (23.9)	0.795 (20.2)	0.032 (0.8)	1600
0.4700	DMT1P47K	0.420 (10.7)	0.600 (15.2)	1.080 (27.4)	0.920 (23.4)	0.032 (0.8)	1050

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Cap. (μF)	Catalog Part Number	T		H		L		S		d		dV/dt V/μs
Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	
100 Vdc (65 Vac) (cont'd)												
0.5000	DMT1P5K	0.530	(13.5)	0.690	(17.5)	1.102	(28.0)	0.920	(23.4)	0.032	(0.8)	1050
0.6800	DMT1P68K	0.480	(12.2)	0.690	(17.5)	1.140	(28.9)	0.985	(25.0)	0.032	(0.8)	1050
1.0000	DMT1W1K	0.520	(13.2)	0.730	(18.5)	1.330	(33.8)	1.170	(29.7)	0.032	(0.8)	800
200/250 Vdc (125 Vac)												
0.0010	DMT2D1K	0.217	(5.5)	0.374	(9.5)	0.512	(13.0)	0.394	(10.0)	0.024	(0.6)	6000
0.0015	DMT2D15K	0.217	(5.5)	0.374	(9.5)	0.512	(13.0)	0.394	(10.0)	0.024	(0.6)	6000
0.0022	DMT2D22K	0.217	(5.5)	0.374	(9.5)	0.512	(13.0)	0.394	(10.0)	0.024	(0.6)	6000
0.0033	DMT2D33K	0.217	(5.5)	0.374	(9.5)	0.512	(13.0)	0.394	(10.0)	0.024	(0.6)	6000
0.0047	DMT2D47K	0.236	(6.0)	0.394	(10.0)	0.512	(13.0)	0.394	(10.0)	0.024	(0.6)	6000
0.0068	DMT2D68K	0.236	(6.0)	0.394	(10.0)	0.512	(13.0)	0.394	(10.0)	0.024	(0.6)	6000
0.0100	DMT2S1K	0.236	(6.0)	0.394	(10.0)	0.512	(13.0)	0.394	(10.0)	0.024	(0.6)	6000
0.0150	DMT2S15K	0.236	(6.0)	0.395	(10.0)	0.512	(13.0)	0.400	(10.2)	0.024	(0.6)	6000
0.0220	DMT2S22K	0.275	(7.0)	0.433	(11.0)	0.512	(13.0)	0.420	(10.7)	0.024	(0.6)	6000
0.0330	DMT2S33K	0.295	(7.5)	0.453	(11.0)	0.694	(17.6)	0.545	(13.8)	0.024	(0.6)	3000
0.0470	DMT2S47K	0.295	(7.5)	0.472	(12.0)	0.694	(17.6)	0.545	(13.8)	0.024	(0.6)	3000
0.0680	DMT2S68K	0.335	(8.5)	0.512	(13.0)	0.694	(17.6)	0.545	(13.8)	0.032	(0.8)	3000
0.1000	DMT2P1K	0.354	(9.0)	0.512	(13.0)	0.820	(20.8)	0.670	(17.0)	0.032	(0.8)	2100
0.1500	DMT2P15K	0.394	(10.0)	0.571	(14.5)	0.820	(20.8)	0.670	(17.0)	0.032	(0.8)	2100
0.2200	DMT2P22K	0.413	(10.5)	0.630	(16.0)	0.945	(24.0)	0.795	(20.2)	0.032	(0.8)	2100
0.3300	DMT2P33K	0.492	(12.5)	0.689	(17.5)	0.945	(24.0)	0.795	(20.2)	0.032	(0.8)	2100
0.4700	DMT2P47K	0.531	(13.5)	0.728	(18.5)	1.110	(28.2)	0.920	(23.4)	0.032	(0.8)	1360
0.6800	DMT2P68K	0.630	(16.0)	0.827	(21.0)	1.132	(28.7)	0.984	(25.0)	0.032	(0.8)	1360
400 Vdc (200 Vac)												
0.0010	DMT4D1K	0.197	(5.0)	0.354	(9.0)	0.569	(14.4)	0.400	(10.2)	0.024	(0.6)	14400
0.0015	DMT4D15K	0.221	(5.6)	0.356	(9.0)	0.569	(14.4)	0.400	(10.2)	0.024	(0.6)	14400
0.0022	DMT4D22K	0.221	(5.6)	0.356	(9.0)	0.569	(14.4)	0.400	(10.2)	0.024	(0.6)	14400
0.0033	DMT4D33K	0.221	(5.6)	0.374	(9.5)	0.569	(14.4)	0.400	(10.2)	0.024	(0.6)	14400
0.0047	DMT4D47K	0.241	(6.1)	0.394	(10.0)	0.569	(14.4)	0.400	(10.2)	0.024	(.6)	14400
0.0068	DMT4D68K	0.286	(7.3)	0.411	(10.4)	0.569	(14.4)	0.400	(10.2)	0.024	(0.6)	14400
0.0100	DMT4S1K	0.331	(8.4)	0.456	(11.6)	0.569	(14.4)	0.400	(10.2)	0.032	(0.8)	14400
0.0150	DMT4S15K	0.368	(9.3)	0.534	(13.6)	0.569	(14.4)	0.400	(10.2)	0.032	(0.8)	14400
0.0220	DMT4S22K	0.328	(8.3)	0.479	(12.2)	0.694	(17.6)	0.545	(13.8)	0.032	(0.8)	7200
0.0330	DMT4S33K	0.388	(9.9)	0.539	(13.7)	0.694	(17.6)	0.545	(13.8)	0.032	(0.8)	7200
0.0470	DMT4S47K	0.338	(8.6)	0.534	(13.6)	0.882	(22.4)	0.733	(18.6)	0.032	(0.8)	4100
0.0680	DMT4S68K	0.397	(10.1)	0.593	(15.1)	0.882	(22.4)	0.733	(18.6)	0.032	(0.8)	4100
0.1000	DMT4P1K	0.472	(12.0)	0.668	(17.0)	0.882	(22.4)	0.733	(18.6)	0.032	(0.8)	4100
0.1500	DMT4P15K	0.408	(10.4)	0.810	(20.6)	1.069	(27.1)	0.920	(23.4)	0.032	(0.8)	2900
0.2200	DMT4P22K	0.418	(10.6)	0.811	(20.6)	1.319	(33.5)	1.170	(29.7)	0.032	(0.8)	2100
0.3300	DMT4P33K	0.415	(10.5)	0.844	(21.4)	1.569	(39.8)	1.420	(36.1)	0.032	(0.8)	2100
0.4700	DMT4P47K	0.541	(13.7)	0.934	(23.7)	1.569	(39.8)	1.420	(36.1)	0.032	(0.8)	2100
600/630 Vdc (250 Vac)												
0.0010	DMT6D1K	0.218	(5.5)	0.326	(8.3)	0.694	(17.6)	0.545	(13.8)	0.024	(0.6)	15000
0.0015	DMT6D15K	0.221	(5.6)	0.329	(8.4)	0.694	(17.6)	0.545	(13.8)	0.024	(0.6)	15000
0.0022	DMT6D22K	0.251	(6.4)	0.359	(9.1)	0.694	(17.6)	0.545	(13.8)	0.024	(0.6)	15000
0.0033	DMT6D33K	0.251	(6.4)	0.376	(9.5)	0.694	(17.6)	0.545	(13.8)	0.032	(0.8)	15000
0.0047	DMT6D47K	0.284	(7.2)	0.409	(10.4)	0.694	(17.6)	0.545	(13.8)	0.032	(0.8)	15000

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Cap. (μ F)	Catalog Part Number	T		H		L		S		d		dV/dt V/ μ s
Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	Inches	(mm)	
600/630 Vdc (250 Vac)												
0.0068	DMT6D68K	0.313	(7.9)	0.464	(11.8)	0.694	(17.6)	0.545	(13.8)	0.032	(0.8)	15000
0.0100	DMT6S1K	0.364	(9.2)	0.515	(13.1)	0.694	(17.6)	0.545	(13.8)	0.032	(0.8)	15000
0.0150	DMT6S15K	0.342	(8.7)	0.508	(12.9)	0.820	(20.8)	0.670	(17.0)	0.032	(0.8)	7400
0.0220	DMT6S22K	0.402	(10.2)	0.568	(14.4)	0.820	(20.8)	0.670	(17.0)	0.032	(0.8)	7400
0.0330	DMT6S33K	0.443	(11.2)	0.609	(15.5)	0.882	(22.4)	0.733	(18.6)	0.032	(0.8)	7400
0.0470	DMT6S47K	0.519	(13.2)	0.685	(17.4)	0.882	(22.4)	0.733	(18.6)	0.032	(0.8)	7400
0.0680	DMT6S68K	0.453	(11.5)	0.649	(16.5)	1.194	(30.3)	1.045	(26.5)	0.032	(0.8)	4000
0.1000	DMTP61K	0.541	(13.7)	0.737	(18.7)	1.194	(30.3)	1.045	(26.5)	0.032	(0.8)	4000
0.1500	DMT6P15K	0.656	(16.7)	0.926	(23.5)	1.194	(30.3)	1.045	(26.5)	0.032	(0.8)	4000
0.2200	DMT6P22K	0.630	(16.0)	1.024	(26.0)	1.444	(36.7)	1.295	(32.9)	0.032	(0.8)	3000
0.3300	DMT6P33K	0.650	(16.5)	1.010	(25.6)	1.819	(46.2)	1.670	(42.4)	0.032	(0.8)	3000
0.4700	DMT6P47K	0.739	(18.8)	1.132	(28.7)	1.819	(46.2)	1.670	(42.4)	0.032	(0.8)	3000