

# Type WMF Polyester Film Capacitors

## Film/Foil Axial Leads



## Commercial, Industrial Applications

Type WMF axial-leaded, polyester film/foil capacitors, available in a wide range of capacitance and voltage ratings, offer excellent moisture resistance capability with extended foil, non-inductive wound sections, epoxy sealed ends and a sealed outer wrapper. Like the **Type DMT**, **Type WMF** is an ideal choice for most applications especially those with high peak currents.

## Specifications

**Voltage Range:** 50—630 Vdc (35-250 Vac, 60 Hz)

**Capacitance Range:** .001—5  $\mu$ F

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

**Operating Temperature Range:**  $-55^{\circ}\text{C}$  to  $125^{\circ}\text{C}^*$

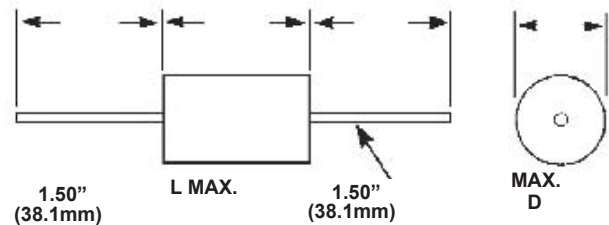
\*Full-rated voltage at  $85^{\circ}\text{C}$ —Derate linearly to 50%-rated voltage at  $125^{\circ}\text{C}$

**Dielectric Strength:** 250% (1 minute)

**Dissipation Factor:** .75% Max. ( $25^{\circ}\text{C}$ , 1 kHz)

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

**Life Test:** 500 Hours at  $85^{\circ}\text{C}$  at 125% Rated Voltage



d TINNED COPPER-CLAD STEEL LEADS

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

## Ratings and Dimensions

Normally Stocked

Cap. ( $\mu\text{F}$ )	Catalog Part Number	D (inches) (mm)	L (inches) (mm)	d (inches) (mm)	dV/dt V/ $\mu\text{s}$
<b>50 Vdc (35 Vac)</b>					
0.0820	WMF05S82K	0.280 (7.1)	0.812 (20.6)	0.020 (0.5)	1500
0.1000	WMF05P1K	0.280 (7.1)	0.812 (20.6)	0.020 (0.5)	1500
0.1500	WMF05P15K	0.315 (8.0)	0.812 (20.6)	0.024 (0.6)	1500
0.2200	WMF05P22K	0.360 (9.1)	0.812 (20.6)	0.024 (0.6)	1500
0.2700	WMF05P27K	0.422 (10.7)	0.812 (20.6)	0.024 (0.6)	1500
0.3300	WMF05P33K	0.430 (10.9)	0.812 (20.6)	0.024 (0.6)	1500
0.3900	WMF05P39K	0.405 (10.3)	1.062 (27.0)	0.024 (0.6)	920
0.4700	WMF05P47K	0.407 (10.3)	1.062 (27.0)	0.024 (0.6)	920
0.5000	WMF05P5K	0.427 (10.8)	1.062 (27.0)	0.024 (0.6)	920
0.5600	WMF05P56K	0.482 (12.2)	1.062 (27.0)	0.024 (0.6)	920
0.6800	WMF05P68K	0.522 (13.3)	1.062 (27.0)	0.024 (0.6)	920
0.8200	WMF05P82K	0.567 (14.4)	1.062 (27.0)	0.032 (0.8)	920
1.0000	WMF05W1K	0.562 (14.3)	1.375 (34.9)	0.024 (0.6)	660
1.2500	WMF05W1P25K	0.575 (14.6)	1.375 (34.9)	0.032 (0.8)	660
1.5000	WMF05W1P5K	0.645 (16.4)	1.375 (34.9)	0.032 (0.8)	660
2.0000	WMF05W2K	0.662 (16.8)	1.625 (41.3)	0.032 (0.8)	310
3.0000	WMF05W3K	0.792 (20.1)	1.625 (41.3)	0.040 (1.0)	310
4.0000	WMF05W4K	0.822 (20.9)	1.825 (46.3)	0.040 (1.0)	310
5.0000	WMF05W5K	0.912 (23.2)	1.825 (46.3)	0.040 (1.0)	310
<b>100 Vdc (65 Vac)</b>					
0.0010	WMF1D1K	0.188 (4.8)	0.562 (14.3)	0.020 (0.5)	6300

Cap. ( $\mu\text{F}$ )	Catalog Part Number	D (inches) (mm)	L (inches) (mm)	d (inches) (mm)	dV/dt V/ $\mu\text{s}$
0.0015	WMF1D15K	0.188 (4.8)	0.562 (14.3)	0.020 (0.5)	6300
0.0022	WMF1D22K	0.188 (4.8)	0.562 (14.3)	0.020 (0.5)	6300
0.0027	WMF1D27K	0.188 (4.8)	0.562 (14.3)	0.020 (0.5)	6300
0.0033	WMF1D33K	0.188 (4.8)	0.562 (14.3)	0.020 (0.5)	6300
0.0039	WMF1D39K	0.188 (4.8)	0.562 (14.3)	0.020 (0.5)	6300
0.0047	WMF1D47K	0.197 (5.0)	0.562 (14.3)	0.020 (0.5)	6300
0.0050	WMF1D5K	0.188 (4.8)	0.562 (14.3)	0.020 (0.5)	6300
0.0056	WMF1D56K	0.188 (4.8)	0.562 (14.3)	0.020 (0.5)	6300
0.0068	WMF1D68K	0.200 (5.1)	0.562 (14.3)	0.020 (0.5)	6300
0.0082	WMF1D82K	0.200 (5.1)	0.562 (14.3)	0.020 (0.5)	6300
0.0100	WMF1S1K	0.200 (5.1)	0.562 (14.3)	0.020 (0.5)	6300
0.0150	WMF1S15K	0.245 (6.2)	0.562 (14.3)	0.020 (0.5)	6300
0.0220	WMF1S22K	0.236 (6.0)	0.687 (17.4)	0.024 (0.6)	3200
0.0270	WMF1S27K	0.235 (6.0)	0.687 (17.4)	0.024 (0.6)	3200
0.0330	WMF1S33K	0.256 (6.5)	0.687 (17.4)	0.024 (0.6)	3200
0.0390	WMF1S39K	0.240 (6.1)	0.812 (20.6)	0.024 (0.6)	1500
0.0470	WMF1S47K	0.255 (6.5)	0.812 (20.6)	0.024 (0.6)	1500
0.0500	WMF1S5K	0.260 (6.6)	0.812 (20.6)	0.024 (0.6)	1500
0.0560	WMF1S56K	0.265 (6.7)	0.812 (20.6)	0.024 (0.6)	2100
0.0680	WMF1S68K	0.295 (7.5)	0.812 (20.6)	0.024 (0.6)	2100
0.0820	WMF1S82K	0.275 (7.0)	0.937 (23.8)	0.024 (0.6)	1600
0.1000	WMF1P1K	0.335 (8.5)	0.937 (23.8)	0.024 (0.6)	1600
0.1500	WMF1P15K	0.340 (8.6)	0.937 (23.8)	0.024 (0.6)	1600
0.2200	WMF1P22K	0.374 (9.5)	1.062 (27.0)	0.024 (0.6)	1600

# Type WMF Polyester Film Capacitors

Cap. ( $\mu$ F)	Catalog Part Number	D (inches) (mm)	L (inches) (mm)	d (inches) (mm)	dV/dt V/ $\mu$ s
.2700	WMF1P27K	0.275 (9.5)	1.187 (30.1)	0.024 (0.6)	1600
.3300	WMF1P33K	0.275 (10.5)	1.187 (30.1)	0.024 (0.6)	1600
.3900	WMF1P39K	.430 (10.9)	1.187 (30.1)	0.024 (0.6)	1600
.4700	WMF1P47K	.492 (12.5)	1.250 (31.7)	0.024 (0.6)	840
.5000	WMF1P5K	.460 (11.7)	1.250 (31.7)	0.024 (0.6)	840
.5600	WMF1P56K	.485 (12.3)	1.250 (31.7)	0.032 (0.8)	840
.6800	WMF1P68K	.570 (14.5)	1.250 (31.7)	0.032 (0.8)	840
.8200	WMF1P82K	.540 (13.7)	1.412 (35.9)	0.032 (0.8)	840
1.0000	WMF1W1K	.669 (17.0)	1.500 (38.1)	0.040 (1.0)	840
1.2500	WMF1W1P25K	.645 (16.4)	1.500 (38.1)	0.040 (1.0)	840
1.5000	WMF1W1P5K	.735 (18.7)	1.625 (41.3)	0.040 (1.0)	840
2.0000	WMF1W2K	.835 (21.2)	1.625 (41.3)	0.040 (1.0)	840
<b>200/250 Vdc 125 Vac</b>					
.0010	WMF2D1K	.188 (4.8)	0.562 (14.3)	0.020 (0.5)	7500
.0015	WMF2D15K	.188 (4.8)	0.562 (14.3)	0.020 (0.5)	7500
.0022	WMF2D22K	.188 (4.8)	0.562 (14.3)	0.020 (0.5)	7500
.0027	WMF2D27K	.188 (4.8)	0.562 (14.3)	0.020 (0.5)	7500
.0033	WMF2D33K	.188 (4.8)	0.562 (14.3)	0.020 (0.5)	7500
.0039	WMF2D39K	.188 (4.8)	0.562 (14.3)	0.020 (0.5)	7500
.0047	WMF2D47K	.202 (5.1)	0.562 (14.3)	0.020 (0.5)	7500
.0050	WMF2D5K	.202 (5.1)	0.562 (14.3)	0.020 (0.5)	7500
.0056	WMF2D56K	.202 (5.1)	0.562 (14.3)	0.020 (0.5)	7500
.0068	WMF2D68K	.202 (5.1)	0.562 (14.3)	0.020 (0.5)	7500
.0082	WMF2D82K	.215 (5.5)	0.562 (14.3)	0.020 (0.5)	7500
.0100	WMF2S1K	.230 (5.8)	0.562 (14.3)	0.020 (0.5)	7500
.0150	WMF2S15K	.265 (6.7)	0.562 (14.3)	0.024 (0.6)	7500
.0220	WMF2S22K	.260 (6.6)	0.687 (17.4)	0.024 (0.6)	3700
.0270	WMF2S27K	.260 (6.6)	0.687 (17.4)	0.024 (0.6)	3700
.0330	WMF2S33K	.275 (7.0)	0.812 (20.6)	0.024 (0.6)	2500
.0390	WMF2S39K	.295 (7.5)	0.812 (20.6)	0.024 (0.6)	2500
.0470	WMF2S47K	.295 (7.5)	0.812 (20.6)	0.024 (0.6)	2500
.0560	WMF2S56K	.295 (7.5)	0.812 (20.6)	0.024 (0.6)	2500
.0680	WMF2S68K	.315 (8.0)	0.812 (20.6)	0.024 (0.6)	2500
.0820	WMF2S82K	.300 (7.6)	0.937 (23.8)	0.024 (0.6)	1900
.1000	WMF2P1K	.320 (8.1)	0.937 (23.8)	0.024 (0.6)	1900
.1500	WMF2P15K	.375 (9.5)	0.937 (23.8)	0.024 (0.6)	1900
.2200	WMF2P22K	.413 (10.5)	1.187 (30.1)	0.024 (0.6)	1900
.2700	WMF2P27K	.500 (12.7)	1.187 (30.1)	0.024 (0.6)	1900
.3300	WMF2P33K	.545 (13.8)	1.260 (32.0)	0.024 (0.6)	1500
.3900	WMF2P39K	.565 (14.3)	1.312 (33.3)	0.032 (0.8)	1500
.4700	WMF2P47K	.610 (15.5)	1.312 (33.3)	0.032 (0.8)	1500
.5600	WMF2P56K	.660 (16.8)	1.312 (33.3)	0.040 (1.0)	1500
.6800	WMF2P68K	.660 (16.8)	1.625 (41.3)	0.040 (1.0)	650
.8200	WMF2P82K	.715 (18.2)	1.625 (41.3)	0.040 (1.0)	650
1.0000	WMF2W1K	.740 (18.8)	1.750 (44.4)	0.040 (1.0)	650
1.2500	WMF2W1P25K	.815 (20.7)	1.750 (44.4)	0.040 (1.0)	650
1.5000	WMF2W1P5K	.809 (20.5)	1.812 (46.0)	0.040 (1.0)	650
2.0000	WMF2W2K	.965 (24.5)	1.875 (47.6)	0.040 (1.0)	650
<b>400 Vdc 200 Vac</b>					
.0010	WMF4D1K	.188 (4.8)	0.687 (17.4)	0.020 (0.5)	14400
.0015	WMF4D15K	.188 (4.8)	0.687 (17.4)	0.020 (0.5)	14400
.0022	WMF4D22K	.188 (4.8)	0.687 (17.4)	0.020 (0.5)	14400
.0027	WMF4D27K	.210 (5.3)	0.687 (17.4)	0.020 (0.5)	14400
.0033	WMF4D33K	.222 (5.6)	0.687 (17.4)	0.020 (0.5)	14400
.0039	WMF4D39K	.232 (5.9)	0.687 (17.4)	0.020 (0.5)	14400
.0047	WMF4D47K	.235 (6.0)	0.687 (17.4)	0.020 (0.5)	14400
.0056	WMF4D56K	.265 (6.7)	0.687 (17.4)	0.024 (0.6)	14400

Cap. ( $\mu$ F)	Catalog Part Number	D (inches) (mm)	L (inches) (mm)	d (inches) (mm)	dV/dt V/ $\mu$ s
.0068	WMF4D68K	0.282 (7.2)	0.687 (17.4)	0.024 (0.6)	14400
.0082	WMF4D82K	0.305 (7.7)	0.687 (17.4)	0.024 (0.6)	14400
.0100	WMF4S1K	0.330 (8.4)	0.687 (17.4)	0.024 (0.6)	14400
.0150	WMF4S15K	0.390 (9.9)	0.687 (17.4)	0.024 (0.6)	14400
.0220	WMF4S22K	0.350 (8.9)	0.812 (20.6)	0.024 (0.6)	6500
.0270	WMF4S27K	0.380 (9.6)	0.812 (20.6)	0.024 (0.6)	6500
.0330	WMF4S33K	0.375 (9.5)	0.875 (22.2)	0.024 (0.6)	6500
.0390	WMF4S39K	0.400 (10.2)	0.875 (22.2)	0.024 (0.6)	6500
.0470	WMF4S47K	0.432 (11.0)	0.875 (22.2)	0.024 (0.6)	6500
.0560	WMF4S56K	0.385 (9.8)	1.062 (27.0)	0.024 (0.6)	3600
.0680	WMF4S68K	0.405 (10.3)	1.062 (27.0)	0.024 (0.6)	3600
.0820	WMF4S82K	0.405 (10.3)	1.062 (27.0)	0.024 (0.6)	3600
.1000	WMF4P1K	0.490 (12.4)	1.062 (27.0)	0.024 (0.6)	3600
.1500	WMF4P15K	0.535 (13.6)	1.250 (31.7)	0.024 (0.6)	2400
.2200	WMF4P22K	0.595 (15.1)	1.375 (34.9)	0.032 (0.8)	2400
.2700	WMF4P27K	0.610 (15.5)	1.500 (38.1)	0.032 (0.8)	2400
.3300	WMF4P33K	0.625 (15.9)	1.625 (41.3)	0.032 (0.8)	1300
.3900	WMF4P39K	0.625 (15.9)	1.625 (41.3)	0.032 (0.8)	1300
.4700	WMF4P47K	0.730 (18.5)	1.625 (41.3)	0.040 (1.0)	1300
.5600	WMF4P56K	0.755 (19.2)	1.750 (44.4)	0.040 (1.0)	1300
.6800	WMF4P68K	0.820 (20.8)	1.750 (44.4)	0.040 (1.0)	1300
.8200	WMF4P82K	0.895 (22.7)	1.750 (44.4)	0.040 (1.0)	1300
1.0000	WMF4W1K	0.895 (22.7)	2.000 (50.8)	0.040 (1.0)	1300
1.2500	WMF4W1P25K	0.990 (25.1)	2.000 (50.8)	0.040 (1.0)	1300
1.5000	WMF4W1P5K	0.995 (25.3)	2.312 (58.7)	0.040 (1.0)	1300
<b>600/630 Vdc 250 Vac</b>					
.0010	WMF6D1K	0.195 (5.0)	0.812 (20.6)	0.020 (0.5)	9000
.0015	WMF6D15K	0.202 (5.1)	0.812 (20.6)	0.020 (0.5)	9000
.0022	WMF6D22K	0.216 (5.5)	0.812 (20.6)	0.020 (0.5)	9000
.0027	WMF6D27K	0.215 (5.5)	0.812 (20.6)	0.020 (0.5)	9000
.0033	WMF6D33K	0.230 (5.8)	0.812 (20.6)	0.020 (0.5)	9000
.0039	WMF6D39K	0.240 (6.1)	0.812 (20.6)	0.020 (0.5)	9000
.0047	WMF6D47K	0.260 (6.6)	0.812 (20.6)	0.020 (0.5)	9000
.0056	WMF6D56K	0.270 (6.9)	0.812 (20.6)	0.024 (0.6)	9000
.0068	WMF6D68K	0.290 (7.4)	0.812 (20.6)	0.024 (0.6)	9000
.0082	WMF6D82K	0.290 (7.4)	0.812 (20.6)	0.024 (0.6)	9000
.0100	WMF6S1K	0.290 (7.4)	0.812 (20.6)	0.024 (0.6)	9000
.0150	WMF6S15K	0.295 (7.5)	0.937 (23.8)	0.024 (0.6)	5800
.0220	WMF6S22K	0.335 (8.5)	0.937 (23.8)	0.024 (0.6)	5800
.0270	WMF6S27K	0.365 (9.3)	0.937 (23.8)	0.024 (0.6)	5800
.0330	WMF6S33K	0.394 (10.0)	1.000 (25.4)	0.024 (0.6)	5800
.0390	WMF6S39K	0.395 (10.0)	1.000 (25.4)	0.024 (0.6)	5800
.0470	WMF6S47K	0.430 (10.9)	1.000 (25.4)	0.024 (0.6)	5800
.0560	WMF6S56K	0.460 (11.7)	1.000 (25.4)	0.024 (0.6)	5800
.0680	WMF6S68K	0.500 (12.7)	1.000 (25.4)	0.032 (0.8)	5800
.0820	WMF6S82K	0.507 (12.9)	1.375 (34.9)	0.032 (0.8)	3700
.1000	WMF6P1K	0.580 (14.7)	1.375 (34.9)	0.032 (0.8)	3700
.1500	WMF6P15K	0.687 (17.4)	1.375 (34.9)	0.040 (1.0)	3700
.2200	WMF6P22K	0.722 (18.3)	1.625 (41.3)	0.040 (1.0)	1600
.2700	WMF6P27K	0.792 (20.1)	1.625 (41.3)	0.040 (1.0)	1600
.3300	WMF6P33K	0.749 (19.0)	2.000 (50.8)	0.040 (1.0)	1600
.3900	WMF6P39K	0.815 (20.7)	2.000 (50.8)	0.040 (1.0)	1600
.4700	WMF6P47K	0.885 (22.5)	2.000 (50.8)	0.040 (1.0)	1600
.5600	WMF6P56K	0.952 (24.2)	2.000 (50.8)	0.040 (1.0)	1600
.6800	WMF6P68K	1.032 (26.2)	2.000 (50.8)	0.040 (1.0)	1600
.8200	WMF6P82K	1.160 (29.5)	2.000 (50.8)	0.040 (1.0)	1600
1.0000	WMF6W1K	1.185 (30.1)	2.562 (65.1)	0.040 (1.0)	1600