ELECTRONIC FILM CAPACITORS, INC.

Reidville Industrial Park * 41 Interstate Lane
WATERBURY, CONNECTICUT 06705

PHONE (203) 755-5629 FAX (203) 755-0659

POLYPROPYLENE SNUBBER

SERIES MF1206

EFC Series MF1206 are polypropylene capacitors with an internal series construction of double-sided metallized carrier and foil contact plates. This series offers the advantages of a self-healing metallized dielectric and the high current/pulsing capabilities (see dv/dt Table) of a foil capacitor. Packaging options include: wrap and fill (TC, TF), radial lead box (EFR), and radial lead dip (DFR).

SPECIFICATIONS

1. TEMPERATURE RANGE

-55°C to +85°C at rated voltage.
To 105°C with 25% voltage derating.

2. CAPACITANCE

Measured at 25°C at 1 kHz.

3. DIELECTRIC STRENGTH

At 25°C, 160% of rated voltage for 10 seconds.

4. INSULATION RESISTANCE

At 25°C with maximum 2 minutes charge at rated voltage or 500 VDC, whichever is less, the minimum IR shall be 200,000 Megohm-Microfarads, but need not exceed 250,000 Megohms.

5. HUMIDITY RESISTANCE

Series MF1206 shall meet the requirements of MIL-STD. 202C, Method 103B.

6. DISSIPATION FACTOR

Shall be 0.1% max. when measured at 25°C at 1 kHz.

7. LIFE TEST

Will withstand the application of 140% rated voltage at +85°C for 250 hours with not more than one failure in 12 permitted.

8. PULSE RISE TIME (dv/dt)

Rated DC Voltage	Body Length (inches)		
	.709-.750	.968-1.04	1.19-1.26
1000	4500	2000	1000
1250	5500	2400	1000
1600	7500	5000	3000
2000	9500	6000	4500

CATALOG NOMENCLATURE

MF 1206 EFR - 3 - .001 - 1.6K - 5

CASE CODE
TC - WRAP & FILL - ROUND - AXIAL
TF - WRAP & FILL - FLAT - AXIAL
EFR - EPOXY CASE - FLAT - RADIAL

DIELECTRIC CODE
1206 - POLYPROPYLENE/FOIL

SIZE CODE
3 - STANDARD
2 - MINIATURE
1 - SUBMINIATURE
X - NON-STANDARD

FOR EFC METRIC CASES USE THE ONE LETTER CASE CODE LISTED.

CAPACITANCE
IN MICROFARADS (µF)

VOLTAGE
10 - 1000 VDC
1.25K - 1250 VDC
1.6K - 1600 VDC
2.0K - 2000 VDC

TOLERANCE
1 - 1%
2 - 2%
5 - 5%
ETC.

OPTION

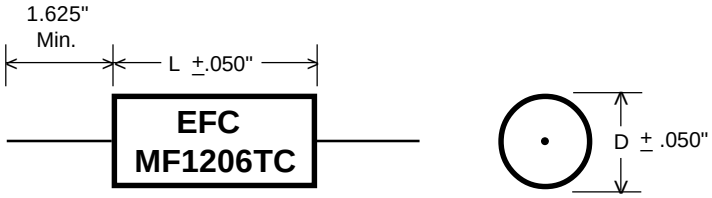
HIGH AMPERAGE AND PULSE CURRENTS
An internal series construction of double-sided metallized carrier and foil contact plates allow these capacitors to handle high amperage and pulsing currents. Specify with the prefix **MF**.

ELECTRONIC FILM CAPACITORS, INC.

MF1206TC

Snubber Capacitors
Polypropylene

Tubular
Wrap and Fill



DIMENSIONS and RATINGS

CAP. µF	1000VDC/350VAC MF1206TC-3		1250VDC/400VAC MF1206TC-3		1600VDC/500VAC MF1206TC-3		2000VDC/560VAC MF1206TC-3	
	D	L	D	L	D	L	D	L
	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)	inches (mm)
0.001	0.210 (5.4)	0.750 (19.1)	0.240 (6.1)	0.750 (19.1)	0.310 (7.9)	0.750 (19.1)	0.250 (6.3)	0.750 (19.1)
0.0012	0.230 (5.9)	0.750 (19.1)	0.260 (6.6)	0.750 (19.1)	0.330 (8.5)	0.750 (19.1)	0.260 (6.6)	0.750 (19.1)
0.0015	0.260 (6.5)	0.750 (19.1)	0.290 (7.3)	0.750 (19.1)	0.360 (9.2)	0.750 (19.1)	0.280 (7.1)	0.750 (19.1)
0.0022	0.310 (8.0)	0.750 (19.1)	0.340 (8.7)	0.750 (19.1)	0.260 (6.5)	0.968 (24.6)	0.320 (8.2)	0.968 (24.6)
0.0027	0.340 (8.7)	0.750 (19.1)	0.240 (6.1)	0.968 (24.6)	0.280 (7.1)	0.968 (24.6)	0.350 (8.8)	0.968 (24.6)
0.0033	0.380 (9.7)	0.750 (19.1)	0.260 (6.7)	0.968 (24.6)	0.320 (8.0)	0.968 (24.6)	0.380 (9.6)	0.968 (24.6)
0.0039	0.240 (6.1)	0.968 (24.6)	0.290 (7.4)	0.968 (24.6)	0.340 (8.6)	0.968 (24.6)	0.400 (10.3)	0.968 (24.6)
0.0047	0.260 (6.6)	0.968 (24.6)	0.320 (8.0)	0.968 (24.6)	0.380 (9.5)	0.968 (24.6)	0.440 (11.1)	0.968 (24.6)
0.0056	0.280 (7.2)	0.968 (24.6)	0.340 (8.7)	0.968 (24.6)	0.410 (10.3)	0.968 (24.6)	0.470 (12.0)	0.968 (24.6)
0.0068	0.310 (7.9)	0.968 (24.6)	0.370 (9.4)	0.968 (24.6)	0.450 (11.5)	0.968 (24.6)	0.510 (13.1)	0.968 (24.6)
0.0082	0.340 (8.8)	0.968 (24.6)	0.410 (10.4)	0.968 (24.6)	0.490 (12.5)	0.968 (24.6)	0.480 (12.1)	1.190 (30.2)
0.01	0.380 (9.6)	0.968 (24.6)	0.430 (10.8)	0.968 (24.6)	0.470 (11.8)	0.968 (24.6)	0.520 (13.2)	1.190 (30.2)
0.012	0.410 (10.4)	0.968 (24.6)	0.460 (11.7)	0.968 (24.6)	0.510 (12.8)	0.968 (24.6)	0.570 (14.4)	1.190 (30.2)
0.015	0.460 (11.6)	0.968 (24.6)	0.470 (11.9)	1.190 (30.2)	0.560 (14.2)	1.190 (30.2)	0.630 (15.9)	1.190 (30.2)
0.018	0.500 (12.8)	0.968 (24.6)	0.520 (13.1)	1.190 (30.2)	0.610 (15.4)	1.190 (30.2)		
0.022	0.480 (12.1)	1.190 (30.2)	0.570 (14.4)	1.190 (30.2)				
0.027	0.530 (13.3)	1.190 (30.2)	0.620 (15.8)	1.190 (30.2)				
0.033	0.580 (14.7)	1.190 (30.2)						
0.039	0.630 (15.9)	1.190 (30.2)						

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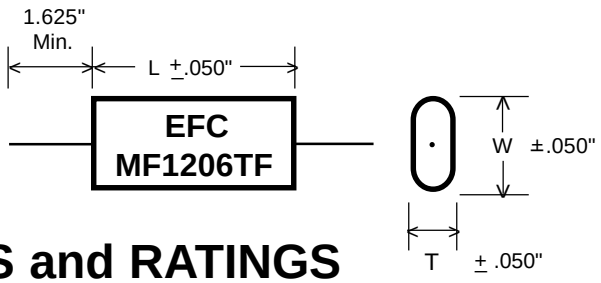
Snubber Capacitors
Polypropylene

MF1206TF

Oval
Wrap and Fill



DIMENSIONS and RATINGS

CAP. µF	MF1206TF-3 1000VDC/350VAC T inches (mm)	H inches (mm)	L inches (mm)	MF1206TF-3 1250VDC/400VAC T inches (mm)	H inches (mm)	L inches (mm)
0.001	0.130 (3.4)	0.260 (6.6)	0.750 (19.1)	0.160 (4.1)	0.290 (7.2)	0.750 (19.1)
0.0012	0.150 (3.9)	0.280 (7.1)	0.750 (19.1)	0.180 (4.6)	0.300 (7.7)	0.750 (19.1)
0.0015	0.189 (4.5)	0.300 (7.7)	0.750 (19.1)	0.210 (5.2)	0.330 (8.4)	0.750 (19.1)
0.0022	0.210 (5.3)	0.370 (9.5)	0.750 (19.1)	0.260 (6.6)	0.390 (9.8)	0.750 (19.1)
0.0027	0.240 (6.0)	0.400 (10.3)	0.750 (19.1)	0.160 (4.1)	0.290 (7.3)	0.968 (24.6)
0.0033	0.269 (6.5)	0.450 (11.5)	0.750 (19.1)	0.180 (4.6)	0.310 (7.8)	0.968 (24.6)
0.0039	0.160 (4.1)	0.290 (7.3)	0.968 (24.6)	0.190 (4.7)	0.350 (8.9)	0.968 (24.6)
0.0047	0.180 (4.6)	0.310 (7.8)	0.968 (24.6)	0.210 (5.3)	0.380 (9.6)	0.968 (24.6)
0.0056	0.200 (5.1)	0.330 (7.8)	0.968 (24.6)	0.230 (6.0)	0.400 (10.2)	0.968 (24.6)
0.0068	0.230 (5.8)	0.350 (9.0)	0.968 (24.6)	0.270 (6.8)	0.430 (11.0)	0.968 (24.6)
0.0082	0.240 (6.1)	0.410 (10.3)	0.968 (24.6)	0.290 (7.3)	0.480 (12.2)	0.968 (24.6)
0.01	0.270 (6.9)	0.440 (11.1)	0.968 (24.6)	0.300 (7.6)	0.500 (12.6)	0.968 (24.6)
0.012	0.300 (7.7)	0.470 (12.0)	0.968 (24.6)	0.340 (8.6)	0.530 (13.6)	0.968 (24.6)
0.015	0.350 (8.9)	0.520 (13.1)	0.968 (24.6)	0.340 (8.6)	0.540 (13.7)	1.190 (30.2)
0.018	0.380 (9.6)	0.570 (14.6)	0.968 (24.6)	0.360 (9.2)	0.610 (15.4)	1.190 (30.2)
0.022	0.370 (9.4)	0.540 (13.6)	1.190 (30.2)	0.410 (10.4)	0.650 (16.6)	1.190 (30.2)
0.027	0.420 (9.7)	0.590 (14.9)	1.190 (30.2)	0.470 (11.8)	0.710 (18.0)	1.190 (30.2)
0.033	0.470 (12.0)	0.640 (16.2)	1.190 (30.2)			
0.039	0.520 (13.2)	0.690 (17.5)	1.190 (30.2)			

CAP. µF	MF1206TF-3 1600VDC/500VAC T inches (mm)	H inches (mm)	L inches (mm)	MF1206TF-3 2000VDC/560VAC T inches (mm)	H inches (mm)	L inches (mm)
0.001	0.160 (3.9)	0.400 (10.2)	0.750 (19.1)	0.130 (3.3)	0.370 (9.5)	0.750 (19.1)
0.0012	0.180 (4.5)	0.420 (10.7)	0.750 (19.1)	0.130 (3.3)	0.370 (9.5)	0.750 (19.1)
0.0015	0.210 (5.3)	0.450 (11.5)	0.750 (19.1)	0.130 (3.3)	0.370 (9.5)	0.750 (19.1)
0.0022	0.180 (4.5)	0.300 (7.7)	0.968 (24.6)	0.170 (4.2)	0.410 (10.4)	0.968 (24.6)
0.0027	0.200 (5.1)	0.330 (8.3)	0.968 (24.6)	0.190 (4.9)	0.440 (11.1)	0.968 (24.6)
0.0033	0.210 (5.3)	0.380 (9.6)	0.968 (24.6)	0.220 (5.6)	0.470 (11.8)	0.968 (24.6)
0.0039	0.230 (5.9)	0.400 (10.2)	0.968 (24.6)	0.250 (6.3)	0.490 (12.5)	0.968 (24.6)
0.0047	0.250 (6.4)	0.450 (11.4)	0.968 (24.6)	0.280 (7.1)	0.530 (13.4)	0.968 (24.6)
0.0056	0.280 (7.1)	0.480 (12.1)	0.968 (24.6)	0.320 (8.0)	0.560 (14.2)	0.968 (24.6)
0.0068	0.300 (7.5)	0.540 (13.8)	0.968 (24.6)	0.360 (9.1)	0.600 (15.3)	0.968 (24.6)
0.0082	0.340 (8.5)	0.580 (14.7)	0.968 (24.6)	0.320 (8.1)	0.570 (14.4)	0.968 (24.6)
0.01	0.310 (7.9)	0.550 (14.1)	0.968 (24.6)	0.360 (9.3)	0.610 (15.5)	0.968 (24.6)
0.012	0.350 (8.9)	0.590 (15.1)	0.968 (24.6)	0.410 (10.4)	0.650 (15.6)	0.968 (24.6)
0.015	0.400 (10.2)	0.650 (16.4)	1.190 (30.2)	0.470 (12.0)	0.720 (18.2)	1.190 (30.2)
0.018	0.450 (11.5)	0.700 (17.7)	1.190 (30.2)			

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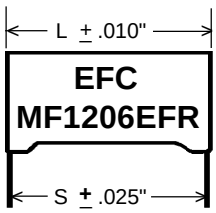
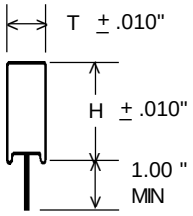
ELECTRONIC FILM CAPACITORS, INC.

MF1206EFR

Snubber Capacitors
Polypropylene





Lead Specs.
Tinned Copperweld

All cases: 20 AWG

DIMENSIONS and RATINGS

Cap. µF	1000/350 VDC/VAC	1250/400 VDC/VAC	1600/500 VDC/VAC	2000/560 VDC/VAC
0.001	F	F	G	J/L
0.0012	F	F	G	J/L
0.0015	F	G	H	J/L
0.0022	G	H	J/L	J/L
0.0027	H	J/L	J/L	K/M
0.0033	H	J/L	J/L	K/M
0.0039	J/L	J/L	K/M	N
0.0047	J/L	J/L	K/M	N
0.0056	J/L	K/M	N	N
0.0068	J/L	N	N	O
0.0082	K/M	N	O	P
0.01	K/M	O	P	P
0.012	N	O	P	P
0.015	O	P	Q	Q
0.018	O	P	Q	
0.022	P	Q		
0.027	P	Q		
0.033	Q			
0.039	Q			

CASE SIZE	L mm / in.	T mm / in.	H mm / in.	S mm / in.
F	18 / .709	5 / .197	11 / .433	15 / .591
G	18 / .709	6 / .236	12 / .472	15 / .591
H	18 / .709	7.5 / .295	13.5 / .531	15 / .591
J	26.5 / 1.04	6 / .236	15 / .591	20 / .787
K	26.5 / 1.04	7 / .276	16 / .630	20 / .787
L	26.5 / 1.04	6 / .236	15 / .591	22.5 / .886
M	26.5 / 1.04	7 / .276	16 / .630	22.5 / .886
N	26.5 / 1.04	8.5 / .335	16.3 / .642	22.5 / .886
O	26.5 / 1.04	10 / .394	19 / .748	22.5 / .886
P	32 / 1.26	11 / .433	20 / .787	27.5 / 1.08
Q	32 / 1.26	13 / .512	22 / .866	27.5 / 1.08

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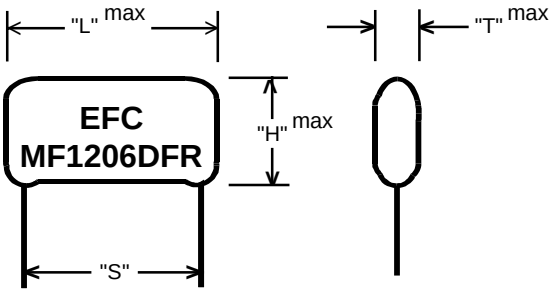
MF1206DFR

Epoxy Dipped (Radial Leads)

Series Polypropylene and Foil Capacitors



Lead Specs. - Tinned Copperweld

L	S	DIA.
18.5	15.0	0.8
26.0	22.5	0.8
31.0	27.5	0.8
44.0	38.0	0.8

(All dimensions in millimeters)

DIMENSIONS and RATINGS

Cap.	MF1206DFR-3 400VDC/350VAC			MF1206DFR-3 630VDC/400VAC			MF1206DFR-3 1000VDC/500VAC			MF1206DFR-3 1600VDC/550VAC			MF1206DFR-3 2000VDC/600VAC								
µF	T	H	L	T	H	L	T	H	L	T	H	L	T	H	L						
.001	4.5	9.0	18.5	4.5	9.0	18.5	4.5	9.0	18.5	5.0	10.0	18.5	6.0	12.0	18.5						
.0012	4.5	9.0	18.5	4.5	9.0	18.5	4.5	9.0	18.5	5.5	10.0	18.5	6.5	12.0	18.5						
.0015	4.5	9.0	18.5	4.5	9.0	18.5	5.0	9.5	18.5	5.5	11.0	18.5	7.0	13.0	18.5						
.0022	4.5	9.0	18.5	4.5	9.0	18.5	5.0	11.0	18.5	6.5	12.5	18.5	8.0	14.0	18.5						
.0027	4.5	9.0	18.5	4.5	9.0	18.5	6.0	12.0	18.5	7.0	13.0	18.5	7.0	13.0	26.0						
.0039	4.5	9.0	18.5	5.0	10.0	18.5	7.0	13.0	18.5	8.0	14.5	18.5	7.5	14.5	26.0						
.0047	4.5	9.0	18.5	5.5	10.5	18.5	7.5	13.5	18.5	7.0	13.0	18.5	8.5	16.0	26.0						
.0056	5.0	9.5	18.5	5.5	11.0	18.5	8.0	14.0	18.5	8.0	14.0	18.5	9.0	16.5	26.0						
.0068	5.0	10.0	18.5	6.0	12.0	18.5	8.5	15.0	18.5	8.5	15.0	26.0	9.5	18.0	26.0						
.0082	5.5	11.0	18.5	6.5	12.5	18.5	8.5	16.0	18.5	8.5	16.0	26.0	9.0	16.5	31.0						
.01	6.0	12.0	18.5	7.0	13.0	18.5	7.5	14.0	26.0	9.0	17.0	26.0	9.5	17.5	31.0						
.012	6.5	12.5	18.5	7.5	14.0	18.5	8.5	15.5	26.0	9.5	18.5	26.0	10.0	19.0	31.0						
.015	7.0	13.0	18.5	8.5	15.5	18.5	9.0	16.5	26.0	9.5	17.0	31.0	11.0	21.0	31.0						
.018	7.5	13.5	18.5	7.5	13.5	26.0	9.5	17.0	26.0	10.0	19.0	31.0	12.0	22.0	31.0						
.022	8.5	15.0	18.5	8.5	15.5	26.0	9.0	16.5	31.0	11.0	20.5	31.0	13.0	24.0	31.0						
.027	9.0	16.0	18.5	9.0	16.0	26.0	9.5	17.5	31.0	12.0	22.0	31.0	12.0	22.0	44.0						
.033	8.0	14.0	26.0	9.5	17.0	26.0	10.5	20.0	31.0	13.0	24.0	31.0	13.0	24.0	44.0						
.039	8.5	15.5	26.0	9.5	18.0	26.0	11.0	21.0	31.0	12.0	22.0	44.0	14.0	26.0	44.0						
.047	9.0	16.5	26.0	9.0	16.5	31.0	12.5	22.0	31.0	13.0	24.0	44.0	15.0	28.0	44.0						
.056	9.5	17.0	26.0	9.5	18.0	31.0	13.0	24.0	31.0	13.5	25.0	44.0									
.068	9.5	18.0	26.0	10.0	19.5	31.0	12.0	21.5	44.0	15.0	27.5	44.0									
.082	9.5	18.0	31.0	11.5	21.0	31.0	13.0	24.0	44.0	16.5	30.0	44.0									
.1	10.0	19.0	31.0	12.5	22.0	31.0	14.0	26.0	44.0	18.0	34.0	44.0									
.12	11.0	20.0	31.0	11.5	21.0	44.0	15.5	28.0	44.0												
.15	12.0	22.0	31.0	12.5	22.0	44.0	17.0	32.0	44.0												
.18	13.0	24.0	31.0	13.0	24.0	44.0	19.0	35.0	44.0												
.22	12.0	22.0	44.0	14.5	26.5	44.0	21.0	37.0	44.0												
.27	13.0	24.0	44.0	16.0	29.0	44.0															
.33	14.0	26.0	44.0	17.5	33.0	44.0															
.39	15.0	27.0	44.0	19.0	35.0	44.0															
.47	16.5	30.0	44.0	21.0	37.0	44.0															

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