



# Series MF1206 Polypropylene Ultra Pulse Snubber

**Features:** Flame retardant to UL94, internal series construction of double-sided metallized carrier, foil contact plates, “self healing” metallized dielectric, high current/pulsing capabilities (see dv/dt table).  
**Packaging:** Axial wrap and fill (TC, TF), radial lead box (EFR).

## Specifications

### 1) Temperature Range

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

### 2) Capacitance

0.001µF to 0.039µF

### 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, but no greater than 500 VDC.  
The minimum IR shall be 200,000 Megohm-  
Microfarads, but need not exceed 250,000  
Megohms.

### 5) Humidity Resistance

MIL-STD. 202C, Method 103B.

### 6) Dissipation Factor

Shall be 0.1% max. at 25°C at 1kHz.

### 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) 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

**\* 1 3 0 6 E F R - 3 - . 0 0 1 - 1 - 5**

**Case Code:**

- TC - Wrap & Fill - Round - Axial
- TF - Wrap & Fill - Flat - Axial
- EC - Epoxy Case - Round - Axial
- EFR - Epoxy Case - Flat - Radial
- DFR - Dipped Construction - Flat - Radial
- HS - Hermetically Sealed

**Dielectric Code:**

- 1206 - Polypropylene/Foil
- 1213 - Metallized Polypropylene
- 1306 - Polyester/Foil
- 1313 - Metallized Polyester
- 1613 - Metallized Polycarbonate
- 1906 - Polystyrene/Foil
- 2113 - Metallized Polyphenylene Sulfide

**Size Code:**

- 3 - Standard
- 2 - Miniature (1313DFR Series Only)
- X - Non-standard
- Or one letter case code

**Capacitance:**

In microfarads ( $\mu$ F)

**Voltage:**

- .35 - 35 VDC
- 0 - 50 VDC
- 1 - 100 VDC
- 2 - 200 VDC
- 3 - 300 VDC
- 4 - 400 VDC
- 10 - 1000 VDC
- 1.6K - 1600VDC
- Etc.

**Tolerance:**

- 1 - 1%
- 2 - 2%
- 5 - 5%
- Etc.

**\* Options**

The following options are available from EFC by specifying the appropriate prefix.

- A - Aluminum foil electrodes
- T - Tin foil electrodes
- HV - High voltage DC applications
- AC - AC voltage rated applications
- MF - Metallized and foil hybrid for maximum pulse current applications
- M - Dual metallized design for pulse current applications
- SP - Low ESR, high RMS current applications
- PC - Direct mount terminals for high current filter applications
- FT - Feed thru filter applications
- RC - Resistor capacitor suppressors

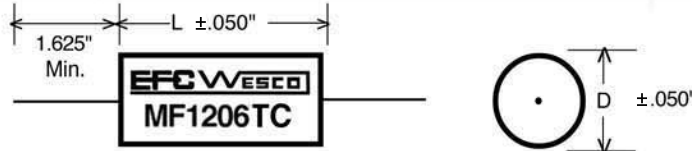


Please consult factory for special requirements, including non-standard values and sizes

## MF1206TC Tubular Wrap & Fill

## Polypropylene Snubber Capacitors

**Lead Spec.**  
Tinned Copperweld  
Under .250D = 24 AWG  
.250 - .440D = 22AWG  
Above .440D = 20 AWG



# Dimensions and Ratings

Cap. 1000 VDC / 350 VAC			
µF	Part #	D in. (mm)	L in. (mm)
.001	MF1206TC-3-.001-10-*	.210 (5.4)	.750 (19.1)
.0012	MF1206TC-3-.0012-10-*	.230 (5.9)	.750 (19.1)
.0015	MF1206TC-3-.0015-10-*	.260 (6.5)	.750 (19.1)
.0022	MF1206TC-3-.0022-10-*	.310 (8.0)	.750 (19.1)
.0027	MF1206TC-3-.0027-10-*	.340 (8.7)	.750 (19.1)
.0033	MF1206TC-3-.0033-10-*	.380 (9.7)	.750 (19.1)
.0039	MF1206TC-3-.0039-10-*	.240 (6.1)	.970 (24.6)
.0047	MF1206TC-3-.0047-10-*	.260 (6.6)	.970 (24.6)
.0056	MF1206TC-3-.0056-10-*	.280 (7.2)	.970 (24.6)
.0068	MF1206TC-3-.0068-10-*	.310 (7.9)	.970 (24.6)
.0082	MF1206TC-3-.0082-10-*	.340 (8.8)	.970 (24.6)
.01	MF1206TC-3-.01-10-*	.380 (9.6)	.970 (24.6)
.012	MF1206TC-3-.012-10-*	.410 (10.4)	.970 (24.6)
.015	MF1206TC-3-.015-10-*	.460 (11.6)	.970 (24.6)
.018	MF1206TC-3-.018-10-*	.500 (12.8)	.970 (24.6)
.022	MF1206TC-3-.022-10-*	.480 (12.1)	1.190 (30.2)
.027	MF1206TC-3-.027-10-*	.530 (13.3)	1.190 (30.2)
.033	MF1206TC-3-.033-10-*	.580 (14.7)	1.190 (30.2)
.039	MF1206TC-3-.039-10-*	.630 (15.9)	1.190 (30.2)

Cap. 1250 VDC / 400 VAC			
µF	Part #	D in. (mm)	L in. (mm)
.001	MF1206TC-3-.001-1.25K-*	.240 (6.1)	.750 (19.1)
.0012	MF1206TC-3-.0012-1.25K-*	.260 (6.6)	.750 (19.1)
.0015	MF1206TC-3-.0015-1.25K-*	.290 (7.3)	.750 (19.1)
.0022	MF1206TC-3-.0022-1.25K-*	.340 (8.7)	.750 (19.1)
.0027	MF1206TC-3-.0027-1.25K-*	.240 (6.1)	.968 (24.6)
.0033	MF1206TC-3-.0033-1.25K-*	.260 (6.7)	.968 (24.6)
.0039	MF1206TC-3-.0039-1.25K-*	.290 (7.4)	.968 (24.6)
.0047	MF1206TC-3-.0047-1.25K-*	.320 (8.0)	.968 (24.6)
.0056	MF1206TC-3-.0056-1.25K-*	.340 (8.7)	.968 (24.6)
.0068	MF1206TC-3-.0068-1.25K-*	.370 (9.4)	.968 (24.6)
.0082	MF1206TC-3-.0082-1.25K-*	.410 (10.4)	.968 (24.6)
.01	MF1206TC-3-.01-1.25K-*	.430 (10.8)	.968 (24.6)
.012	MF1206TC-3-.012-1.25K-*	.460 (11.7)	.968 (24.6)
.015	MF1206TC-3-.015-1.25K-*	.470 (11.9)	1.190 (30.2)
.018	MF1206TC-3-.018-1.25K-*	.520 (13.1)	1.190 (30.2)
.022	MF1206TC-3-.022-1.25K-*	.570 (14.4)	1.190 (30.2)
.027	MF1206TC-3-.027-1.25K-*	.620 (15.8)	1.190 (30.2)

Cap. 1600 VDC / 500 VAC			
µF	Part #	D in. (mm)	L in. (mm)
.001	MF1206TC-3-.001-1.6K-*	.310 (7.9)	.750 (19.1)
.0012	MF1206TC-3-.0012-1.6K-*	.330 (8.5)	.750 (19.1)
.0015	MF1206TC-3-.0015-1.6K-*	.360 (9.2)	.750 (19.1)
.0022	MF1206TC-3-.0022-1.6K-*	.260 (6.5)	.968 (24.6)
.0027	MF1206TC-3-.0027-1.6K-*	.280 (7.1)	.968 (24.6)
.0033	MF1206TC-3-.0033-1.6K-*	.320 (8.0)	.968 (24.6)
.0039	MF1206TC-3-.0039-1.6K-*	.340 (8.6)	.968 (24.6)
.0047	MF1206TC-3-.0047-1.6K-*	.380 (9.5)	.968 (24.6)
.0056	MF1206TC-3-.0056-1.6K-*	.410 (10.3)	.968 (24.6)
.0068	MF1206TC-3-.0068-1.6K-*	.450 (11.5)	.968 (24.6)
.0082	MF1206TC-3-.0082-1.6K-*	.490 (12.5)	.968 (24.6)
.01	MF1206TC-3-.01-1.6K-*	.470 (11.8)	.968 (24.6)
.012	MF1206TC-3-.012-1.6K-*	.510 (12.8)	.968 (24.6)
.015	MF1206TC-3-.015-1.6K-*	.560 (14.2)	1.190 (30.2)
.018	MF1206TC-3-.018-1.6K-*	.610 (15.4)	1.190 (30.2)

Cap. 2000 VDC / 560 VAC			
µF	Part #	D in. (mm)	L in. (mm)
.001	MF1206TC-3-.001-2.0K-*	.250 (6.3)	.750 (19.1)
.0012	MF1206TC-3-.0012-2.0K-*	.260 (6.6)	.750 (19.1)
.0015	MF1206TC-3-.0015-2.0K-*	.280 (7.1)	.750 (19.1)
.0022	MF1206TC-3-.0022-2.0K-*	.320 (8.2)	.968 (24.6)
.0027	MF1206TC-3-.0027-2.0K-*	.350 (8.8)	.968 (24.6)
.0033	MF1206TC-3-.0033-2.0K-*	.380 (9.6)	.968 (24.6)
.0039	MF1206TC-3-.0039-2.0K-*	.400 (10.3)	.968 (24.6)
.0047	MF1206TC-3-.0047-2.0K-*	.440 (11.1)	.968 (24.6)
.0056	MF1206TC-3-.0056-2.0K-*	.470 (12.0)	.968 (24.6)
.0068	MF1206TC-3-.0068-2.0K-*	.510 (13.1)	.968 (24.6)
.0082	MF1206TC-3-.0082-2.0K-*	.480 (12.1)	1.190 (30.2)
.01	MF1206TC-3-.01-2.0K-*	.520 (13.2)	1.190 (30.2)
.012	MF1206TC-3-.012-2.0K-*	.570 (14.4)	1.190 (30.2)
.015	MF1206TC-3-.015-2.0K-*	.630 (15.9)	1.190 (30.2)

\* - Please insert appropriate tolerance code