ELECTRONIC FILM CAPACITORS, INC.

Reidville Industrial Park * 41 Interstate Lane
WATERBURY, CONNECTICUT 06705

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

POLYESTER (MYLAR®) and FOIL

SERIES 1306

EFC Series 1306 are polyester and foil capacitors. This series offers the advantage of small size and low cost, dv/dt ratings in excess of 1000 V/µs. Suggested applications include: medical electronics, telecommunications. Packaging options include: wrap and fill (TF, TC), radial lead box (EFR), axial lead (EC, EF).

SPECIFICATIONS

1. TEMPERATURE RANGE

- 55 °C to + 85 °C at rated voltage.
To 105 °C with 50% voltage derating.

2. CAPACITANCE

Capacitors ≤ 1.0 MFD shall be measured at 1 KHz ± 20 HZ.. Capacitors >1.0 MFD shall be measured at 60 HZ. Measurements shall be taken at 25 °C.

3. DIELECTRIC STRENGTH

At 25 °C, 200% of rated voltage when applied terminal to terminal for one minute through a current limiting resistance.

4. INSULATION RESISTANCE

At 25 °C after 2 minutes charge time at rated voltage or 500 VDC, whichever is less, the minimum IR shall be 50,000 Megohm-Microfarads, but need not exceed 100,000 Megohms.

5. HUMIDITY RESISTANCE

Series 1306 shall meet the requirements of MIL-STD. 202C, Method 103B.

6. DISSIPATION FACTOR

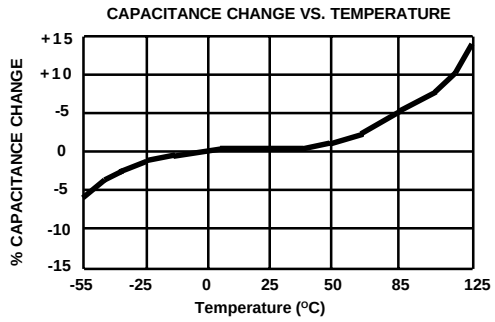
Shall be 0.6% max. when measured as in Par. 2.

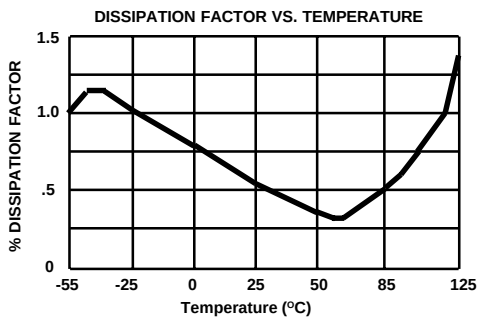
7. LIFE TEST

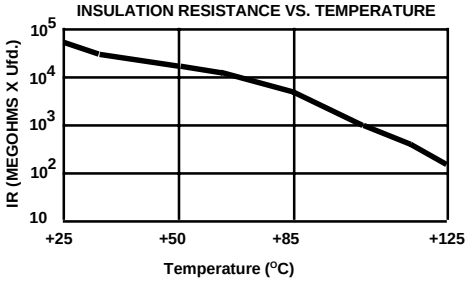
Will withstand the application of 140% rated voltage at +85°C for 250 hours with not more than one failure in 12 permitted.

TYPICAL TEMPERATURE CURVES

POLYESTER (MYLAR®) and FOIL







CATALOG NOMENCLATURE

*** 1306 EFR - 3 - .001 - 1 - 5**

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

DIELECTRIC CODE
1206 - POLYPROPYLENE/FOIL
1213 - METALLIZED POLYPROPYLENE
1306 - POLYESTER/FOIL
1313 - METALLIZED POLYESTER
1606 - POLYCARBONATE/FOIL
1613 - METALLIZED POLYCARBONATE
1906 - POLYSTYRENE/FOIL

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

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

FOR EFC "EC" STYLE USE THE TWO LETTER CASE CODE.

CAPACITANCE
IN MICROFARADS (µF)

VOLTAGE
.35 - 35 VDC
0 - 50 VDC
1 - 100 VDC
2 - 200 VDC
3 - 300 VDC
4 - 400 VDC
ETC.

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

* OPTIONS

THE FOLLOWING OPTIONS ARE AVAILABLE FROM EFC BY SPECIFYING THE APPROPRIATE PREFIX.

TEMPERATURE COEFFICIENTS:
Different T.C.'s are available in both Polypropylene and Polystyrene dielectrics. T.C.'s and the appropriate prefixes are as follows:

A1206 = -150 PPM/°C ±30 PPM
T1206 = -270 PPM/°C ±30 PPM
01906 = ZERO PPM/°C ±50 PPM
A1906 = -80 PPM/°C ±30 PPM
T1906 = -120 PPM/°C ±30 PPM

HIGH VOLTAGE:
EFC high voltage metallized polyester capacitors are designed for use in high voltage power supplies, rectifiers and other similar circuits. Voltage ratings to 15,000 DC are common-place at EFC. Specify with the prefix **HV**.

AC CURRENT:
Specify metallized polyester and termination procedures to enable EFC to supply a small sized **AC** rated capacitor for general purpose use at 60 HZ. Specify with the prefix **AC**.

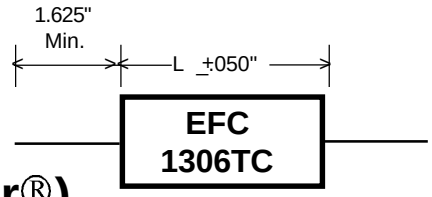
HIGH AMPERAGE AND PULSE CURRENTS:
Dual metallized carriers allow these capacitors to handle high amperage and pulsing currents. Available in both polyester and polypropylene dielectrics. Specify with the prefix **MF**. Contact the factory for an **MF** spec. sheet.

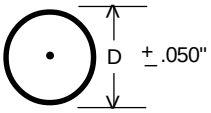
SWITCH MODE POWER SUPPLY:
Polypropylene and polyester capacitors designed for SMPS have low ESR and high current rating should be specified with the **SP** prefix.

EFC will manufacture to any non-standard value and size. Please consult factory for special requirements.

1306TC

Tubular
Wrap and Fill





Polyester (Mylar®) and Foil Capacitors

(All dimensions in inches)

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

DIMENSIONS and RATINGS

Cap.	1306TC-1 50 VDC		1306TC-2 100 VDC		1306TC-3 150 VDC		1306TC-3 200 VDC		1306TC-3 400 VDC		1306TC-3 600 VDC		
µF	D	L	D	L	D	L	D	L	D	L	D	L	
.001	.180	.406	.180	.406	.180	.406	.180	.406	.180	.406	.180	.531	
.0012	.180	.406	.180	.406	.180	.406	.180	.406	.180	.406	.180	.531	
.0015	.180	.406	.180	.406	.180	.406	.180	.406	.180	.406	.180	.531	
.0022	.180	.406	.180	.406	.180	.406	.180	.406	.200	.406	.190	.531	
.0027	.180	.406	.180	.406	.180	.406	.180	.406	.220	.406	.200	.531	
.0039	.180	.406	.180	.406	.180	.406	.180	.406	.260	.406	.240	.531	
.0047	.180	.406	.180	.406	.180	.406	.180	.406	.180	.531	.260	.531	
.0056	.180	.406	.180	.406	.180	.406	.190	.406	.190	.531	.280	.531	
.0068	.180	.406	.180	.406	.180	.406	.210	.406	.200	.531	.230	.656	
.0082	.180	.406	.180	.406	.190	.406	.230	.406	.220	.531	.250	.656	
.01	.180	.406	.180	.406	.210	.406	.250	.406	.240	.531	.270	.656	
.012	.180	.406	.200	.406	.220	.406	.180	.531	.270	.531	.290	.656	
.015	.180	.406	.220	.406	.170	.531	.200	.531	.290	.531	.330	.656	
.018	.200	.406	.240	.406	.180	.531	.220	.531	.250	.656	.360	.656	
.022	.210	.406	.180	.531	.200	.531	.240	.531	.280	.656	.330	.781	
.027	.230	.406	.200	.531	.220	.531	.260	.531	.310	.656	.360	.781	
.033	.180	.531	.210	.531	.240	.531	.290	.531	.340	.656	.400	.781	
.039	.190	.531	.230	.531	.260	.531	.250	.656	.360	.656	.370	.906	
.047	.200	.531	.250	.531	.290	.531	.280	.656	.340	.781	.410	.906	
.056	.220	.531	.270	.531	.250	.656	.300	.656	.370	.781	.450	.906	
.068	.200	.656	.240	.656	.280	.656	.330	.656	.410	.781	.490	.906	
.082	.210	.656	.270	.656	.300	.656	.360	.656	.400	.906	.450	1.190	
.1	.230	.656	.290	.656	.330	.656	.350	.781	.440	.906	.490	1.190	
.12	.250	.656	.320	.656	.360	.656	.380	.781	.480	.906	.530	1.190	
.15	.280	.656	.350	.656	.350	.781	.420	.781	.450	1.190	.590	1.190	
.18	.270	.781	.390	.656	.380	.781	.410	.906	.490	1.190	.650	1.190	
.22	.300	.781	.330	.906	.420	.781	.450	.906	.540	1.190	.620	1.440	
.27	.330	.781	.370	.906	.410	.906	.500	.906	.600	1.190	.690	1.440	
.33	.320	.906	.400	.906	.460	.906	.470	1.190	.580	1.440	.680	1.690	
.39	.350	.906	.440	.906	.500	.906	.510	1.190	.630	1.440	.740	1.690	
.47	.380	.906	.480	.906	.460	1.190	.560	1.190	.690	1.440	.810	1.690	
.56	.360	1.190	.440	1.190	.500	1.190	.600	1.190	.680	1.690	.810	1.940	
.68	.390	1.190	.490	1.190	.550	1.190	.660	1.190	.740	1.690	.890	1.940	
.82	.420	1.190	.530	1.190	.600	1.190	.640	1.440	.810	1.690	.970	1.940	
1.0	.460	1.190	.580	1.190	.660	1.190	.710	1.440	.820	1.940	1.070	1.940	
1.25	.520	1.190	.650	1.190	.650	1.440	.720	1.690	.920	1.940	1.110	2.250	
1.5			.630	1.440	.710	1.440	.780	1.690	1.00	1.940	1.220	2.250	
2.0			.720	1.440	.750	1.690	.830	1.940	1.080	2.250			
3.0			.800	1.690	.910	1.690	1.010	1.940	1.310	2.250			
4.0			.920	1.690	1.050	1.690							
5.0			1.020	1.940	1.070	1.940							
6.0					1.170	1.940							
8.0					1.260	2.250							

ELECTRONIC FILM CAPACITORS, INC.

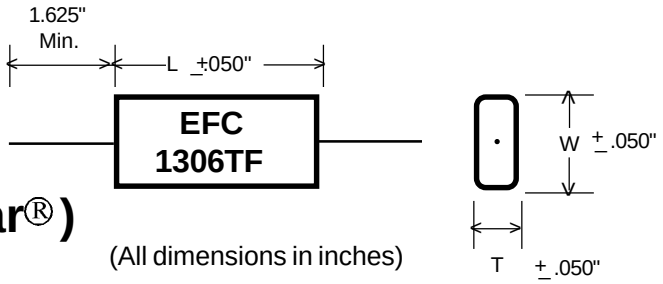
Reidville Industrial Park * 41 Interstate Lane * WATERBURY, CONNECTICUT 06705

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

EFC will manufacture to any non-standard value and size. Please consult factory for special requirements.

1306TF

Oval
Wrap and Fill



(All dimensions in inches)

Lead Specs.
Tinned Copperweld
Under .190T = 24 AWG
.190 - .380T = 22 AWG
Above .380T = 20 AWG

Polyester (Mylar®) and Foil Capacitors

DIMENSIONS and RATINGS

Cap.	1306TF-1 50 VDC			1306TF-2 100 VDC			1306TF-3 150 VDC			1306TF-3 200 VDC			1306TF-3 400 VDC			1306TF-3 600 VDC		
µF	T	W	L	T	W	L	T	W	L	T	W	L	T	W	L	T	W	L
.001	.120	.210	.406	.120	.210	.406	.120	.210	.406	.120	.210	.406	.120	.210	.406	.120	.210	.531
.0012	.120	.210	.406	.120	.210	.406	.120	.210	.406	.120	.210	.406	.120	.210	.406	.120	.210	.531
.0015	.120	.210	.406	.120	.210	.406	.120	.210	.406	.120	.210	.406	.120	.210	.406	.120	.210	.531
.0022	.120	.210	.406	.120	.210	.406	.120	.210	.406	.120	.210	.406	.140	.240	.406	.130	.220	.531
.0027	.120	.210	.406	.120	.210	.406	.120	.210	.406	.120	.210	.406	.160	.260	.406	.140	.240	.531
.0039	.120	.210	.406	.120	.210	.406	.120	.210	.406	.120	.210	.406	.200	.300	.406	.180	.270	.531
.0047	.120	.210	.406	.120	.210	.406	.120	.210	.406	.120	.210	.406	.120	.210	.531	.200	.300	.531
.0056	.120	.210	.406	.120	.210	.406	.120	.210	.406	.130	.230	.406	.130	.220	.531	.220	.320	.531
.0068	.120	.210	.406	.120	.210	.406	.120	.210	.406	.150	.250	.406	.140	.240	.531	.170	.260	.656
.0082	.120	.210	.406	.120	.210	.406	.130	.220	.406	.170	.260	.406	.160	.260	.531	.190	.280	.656
.01	.120	.210	.406	.120	.220	.406	.150	.240	.406	.190	.280	.406	.180	.280	.531	.210	.300	.656
.012	.120	.210	.406	.140	.230	.406	.160	.260	.406	.120	.220	.531	.210	.300	.531	.230	.330	.656
.015	.120	.220	.406	.160	.250	.406	.110	.200	.531	.140	.240	.531	.230	.330	.531	.270	.360	.656
.018	.140	.230	.406	.180	.270	.406	.120	.220	.531	.160	.250	.531	.190	.290	.656	.300	.390	.656
.022	.150	.240	.406	.120	.210	.531	.140	.240	.531	.180	.270	.531	.220	.310	.656	.250	.370	.781
.027	.170	.270	.406	.140	.230	.531	.160	.260	.531	.200	.300	.531	.250	.340	.656	.280	.410	.781
.033	.120	.210	.531	.150	.250	.531	.180	.280	.531	.230	.320	.531	.280	.370	.656	.320	.440	.781
.039	.130	.220	.531	.170	.270	.531	.200	.300	.531	.190	.290	.656	.300	.400	.656	.290	.420	.906
.047	.140	.240	.531	.190	.290	.531	.230	.320	.531	.220	.310	.656	.260	.390	.781	.330	.460	.906
.056	.160	.250	.531	.210	.310	.531	.190	.290	.656	.240	.340	.656	.290	.420	.781	.370	.490	.906
.068	.180	.270	.531	.180	.280	.656	.220	.310	.656	.270	.360	.656	.330	.460	.781	.410	.530	.906
.082	.200	.300	.531	.210	.300	.656	.240	.340	.656	.300	.400	.656	.320	.440	.906	.340	.510	1.190
.1	.230	.320	.531	.230	.330	.656	.270	.360	.656	.270	.390	.781	.360	.480	.906	.380	.550	1.190
.12	.190	.290	.656	.260	.350	.656	.300	.400	.656	.300	.420	.781	.400	.520	.906	.430	.600	1.190
.15	.220	.310	.656	.290	.390	.656	.270	.400	.781	.340	.470	.781	.350	.510	1.190	.490	.660	1.190
.18	.250	.340	.656	.330	.420	.656	.300	.430	.781	.330	.460	.906	.390	.550	1.190	.540	.710	1.190
.22	.280	.370	.656	.290	.420	.781	.340	.470	.781	.370	.500	.906	.440	.600	1.190	.520	.680	1.440
.27	.310	.410	.656	.330	.450	.781	.330	.460	.906	.420	.540	.906	.490	.660	1.190	.580	.750	1.440
.33	.280	.400	.781	.320	.450	.906	.380	.500	.906	.360	.530	1.190	.470	.640	1.440	.560	.760	1.690
.39	.310	.430	.781	.360	.480	.906	.420	.540	.906	.400	.570	1.190	.520	.690	1.440	.620	.810	1.690
.47	.340	.470	1.190	.400	.520	.906	.360	.520	1.190	.450	.620	1.190	.580	.750	1.440	.690	.880	1.690
.56	.330	.460	1.190	.340	.500	1.190	.400	.560	1.190	.500	.670	1.190	.550	.750	1.690	.680	.880	1.940
.68	.370	.500	1.190	.380	.550	1.190	.450	.610	1.190	.560	.720	1.190	.620	.820	1.690	.760	.960	1.940
.82	.410	.540	1.190	.430	.590	1.190	.500	.660	1.190	.540	.700	1.440	.690	.890	1.690	.850	1.050	1.940
1.0	.360	.520	1.190	.480	.640	1.190	.560	.730	1.190	.590	.780	1.440	.700	.900	1.940	.950	1.150	1.940
1.25	.410	.580	1.190	.540	.710	1.190	.550	.710	1.440	.590	.790	1.690	.790	.990	1.940	.990	1.180	2.250
1.5	.460	.620	1.190	.520	.690	1.440	.610	.770	1.440	.660	.850	1.690	.880	1.080	1.940	1.090	1.290	2.250
2.0	.540	.710	1.190	.610	.780	1.440	.620	.820	1.690	.700	.900	1.940	.950	1.150	2.250			
3.0				.670	.870	1.690	.780	.980	1.690	.880	1.080	1.940	1.190	1.390	2.250			
4.0				.790	.990	1.690	.920	1.120	1.690									
5.0				.900	1.090	1.690	.950	1.140	1.940									
6.0							1.050	1.250	1.940									
8.0							1.130	1.330	2.250									

ELECTRONIC FILM CAPACITORS, INC.

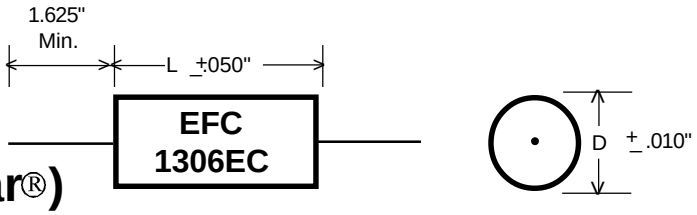
Reidville Industrial Park * 41 Interstate Lane * WATERBURY, CONNECTICUT 06705

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

EFC will manufacture to any non-standard value and size. Please consult factory for special requirements.

1306EC

Epoxy case (Axial Leads)



(All dimensions in inches)

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

Polyester (Mylar®) and Foil Capacitors

DIMENSIONS and RATINGS

Cap.	1306EC-1 50 VDC		1306EC-2 100 VDC		1306EC-3 150 VDC		1306EC-3 200 VDC		1306EC-3 400 VDC		1306EC-3 600 VDC	
µF	D	L	D	L	D	L	D	L	D	L	D	L
.001	1	A	1	A	1	A	1	A	1	A	1	B
.0012	1	A	1	A	1	A	1	A	2	A	1	B
.0015	1	A	1	A	1	A	1	A	2	A	2	B
.0022	1	A	1	A	1	A	1	A	1	B	3	B
.0027	1	A	1	A	1	A	2	A	1	B	3	B
.0039	1	A	1	A	1	A	2	A	2	B	2	C
.0047	1	A	1	A	2	A	1	B	2	B	3	C
.0056	2	A	1	A	2	A	2	B	3	B	4	C
.0068	2	A	2	A	2	A	2	B	3	B	4	C
.0082	2	A	2	A	2	A	2	B	2	C	4	C
.01	1	B	2	A	1	B	2	B	3	C	4	D
.012	1	B	1	B	2	B	3	B	4	C	4	D
.015	2	B	2	B	2	B	3	B	4	C	5	D
.018	2	B	2	B	2	B	3	C	4	C	5	D
.022	2	B	2	B	3	B	3	C	4	D	5	E
.027	3	B	3	B	3	B	4	C	4	D	6	E
.033	3	B	3	B	3	C	4	C	4	D	6	E
.039	3	C	3	C	3	C	4	C	4	E	7	E
.047	3	C	3	C	4	C	4	D	4	E	7	E
.056	3	C	3	C	4	C	5	D	6	E	7	F
.068	4	C	4	C	4	C	5	D	6	E	7	F
.082	4	C	4	C	4	D	5	E	7	E		
.1	4	C	4	D	5	D	6	E	7	F		
.12	4	D	4	D	5	D	6	E	7	F		
.15	5	D	5	D	5	E	7	E				
.18	5	D	5	D	5	E	7	E				
.22	5	E	5	E	6	E	7	F				
.27	6	E	6	E	7	E						
.33	6	E	7	E	7	E						
.39	7	E	7	E	7	F						
.47	7	F	7	F	7	F						
.56	7	F	7	F								

DIAMETER

1 = .187
2 = .225
3 = .250
4 = .312
5 = .375
6 = .437
7 = .500

SIZE CODE

LENGTH

A = .375
B = .500
C = .625
D = .750
E = .875
F = 1.190

ELECTRONIC FILM CAPACITORS, INC.

Reidville Industrial Park * 41 Interstate Lane * WATERBURY, CONNECTICUT 06705

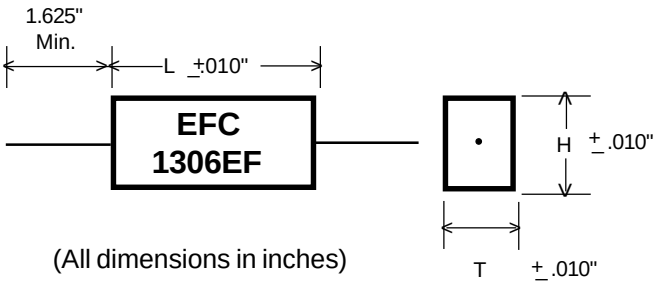
Phone (203) 755-5629 FAX (203) 755-0659

EFC will manufacture to any non-standard value and size. Please consult factory for special requirements.

1306EF

Epoxy Case (Axial Leads)

Polyester (Mylar®) and Foil Capacitors



(All dimensions in inches)

Lead Specs.
Tinned Copperweld
Under .190T = 24 AWG
.190 - .380T = 22 AWG
Above .380T = 20 AWG

DIMENSIONS and RATINGS

Cap.	1306EF-1 50 VDC			1306EF-2 100 VDC			1306EF-2 150 VDC			1306EF-3 200 VDC			1306EF-3 400 VDC			1306EF-3 600 VDC		
µF	T	H	L	T	H	L	T	H	L	T	H	L	T	H	L	T	H	L
.001	.160	.240	.420	.160	.240	.420	.160	.240	.420	.160	.240	.420	.160	.240	.420	.170	.290	.570
.0012	.160	.240	.420	.160	.240	.420	.160	.240	.420	.160	.240	.420	.160	.240	.420	.170	.290	.570
.0015	.160	.240	.420	.160	.240	.420	.160	.240	.420	.160	.240	.420	.160	.240	.420	.170	.290	.570
.0022	.160	.240	.420	.160	.240	.420	.160	.240	.420	.160	.240	.420	.170	.290	.570	.170	.290	.570
.0027	.160	.240	.420	.160	.240	.420	.160	.240	.420	.160	.240	.420	.170	.290	.570	.230	.360	.550
.0039	.160	.240	.420	.160	.240	.420	.160	.240	.420	.160	.240	.420	.170	.290	.570	.230	.360	.550
.0047	.160	.240	.420	.160	.240	.420	.160	.240	.420	.170	.290	.420	.170	.290	.570	.290	.420	.570
.0056	.160	.240	.420	.160	.240	.420	.160	.240	.420	.170	.290	.420	.170	.290	.570	.290	.420	.570
.0068	.160	.240	.420	.160	.240	.420	.160	.240	.420	.170	.290	.570	.230	.360	.550	.290	.420	.570
.0082	.160	.240	.420	.160	.240	.420	.170	.290	.420	.170	.290	.570	.230	.360	.550	.290	.420	.670
.01	.160	.240	.420	.170	.290	.420	.170	.290	.570	.170	.290	.570	.230	.360	.550	.290	.420	.670
.012	.160	.240	.420	.170	.290	.420	.170	.290	.570	.170	.290	.570	.230	.360	.550	.290	.420	.670
.015	.170	.290	.420	.170	.290	.570	.170	.290	.570	.230	.360	.550	.290	.420	.570	.290	.420	.670
.018	.170	.290	.570	.170	.290	.570	.170	.290	.570	.230	.360	.550	.290	.420	.570	.290	.420	.820
.022	.170	.290	.570	.170	.290	.570	.230	.360	.550	.230	.360	.550	.290	.420	.670	.290	.420	.820
.027	.170	.290	.570	.230	.360	.550	.230	.360	.550	.230	.360	.550	.290	.420	.670	.390	.540	.820
.033	.170	.290	.570	.230	.360	.550	.230	.360	.550	.290	.420	.570	.290	.420	.820	.390	.540	.820
.039	.170	.290	.570	.230	.360	.550	.230	.360	.550	.290	.420	.670	.290	.420	.820	.390	.540	.820
.047	.230	.360	.550	.230	.360	.550	.290	.420	.570	.290	.420	.670	.390	.540	.820	.390	.540	1.040
.056	.230	.360	.550	.290	.420	.570	.290	.420	.570	.290	.420	.670	.390	.540	.820	.390	.540	1.040
.068	.230	.360	.550	.290	.420	.570	.290	.420	.670	.290	.420	.670	.390	.540	.820	.390	.540	1.240
.082	.290	.420	.570	.290	.420	.570	.290	.420	.670	.290	.420	.820	.390	.540	.820	.390	.540	1.240
.1	.290	.420	.570	.290	.420	.670	.290	.420	.670	.390	.540	.820	.390	.540	1.040	.560	.720	1.240
.12	.290	.420	.570	.290	.420	.670	.290	.420	.820	.390	.540	.820	.390	.540	1.240	.560	.720	1.240
.15	.290	.420	.670	.290	.420	.820	.390	.540	.820	.390	.540	.820	.390	.540	1.240	.560	.720	1.240
.18	.290	.420	.670	.390	.540	.820	.390	.540	.820	.390	.540	1.040	.560	.720	1.240			
.22	.290	.420	.820	.390	.540	.820	.390	.540	.820	.390	.540	1.240	.560	.720	1.240			
.27	.290	.420	.820	.390	.540	.820	.390	.540	1.040	.390	.540	1.240	.560	.720	1.240			
.33	.390	.540	.820	.390	.540	1.040	.390	.540	1.240	.560	.720	1.240						
.39	.390	.540	.820	.390	.540	1.040	.390	.540	1.240	.560	.720	1.240						
.47	.390	.540	.820	.390	.540	1.240	.560	.720	1.240	.560	.720	1.240						
.56	.390	.540	1.040	.390	.540	1.240	.560	.720	1.240	.560	.720	1.240						
.68	.390	.540	1.240	.560	.720	1.240	.560	.720	1.240									
.82	.390	.540	1.240	.560	.720	1.240	.560	.720	1.240									
1.0	.560	.720	1.240	.560	.720	1.240												
1.25	.560	.720	1.240	.560	.720	1.240												
1.5	.560	.720	1.240															

ELECTRONIC FILM CAPACITORS, INC.

Reidville Industrial Park * 41 Interstate Lane * WATERBURY, CONNECTICUT 06705

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

EFC will manufacture to any non-standard value and size. Please consult factory for special requirements.

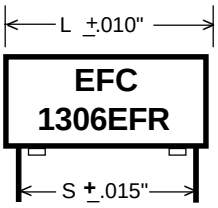
1306EFR

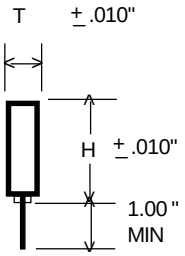
Epoxy Case (Radial Leads)

Lead Specs. - Tinned Copperweld

L	S	AWG
.420	.30	22
.550	.40	22
.670	.50	22
.820	.60	22
1.04	.80	22
1.24	1.10	20
1.75	1.60	20

Polyester (Mylar®) and Foil Capacitors





(All dimensions in inches)

DIMENSIONS and RATINGS

Cap.	1306EFR-1 50 VDC			1306EFR-2 100 VDC			1306EFR-3 150 VDC			1306EFR-3 200 VDC			1306EFR-3 400 VDC			1306EFR-3 600 VDC			
µF	T	L	H	T	L	H	T	L	H	T	L	H	4	L	H	T	L	H	
.001	.160	.420	.330	.160	.420	.330	.160	.420	.330	.160	.420	.330	.160	.420	.330	.180	.550	.330	
.0012	.160	.420	.330	.160	.420	.330	.160	.420	.330	.160	.420	.330	.160	.420	.330	.180	.550	.330	
.0015	.160	.420	.330	.160	.420	.330	.160	.420	.330	.160	.420	.330	.160	.420	.330	.180	.550	.330	
.0022	.160	.420	.330	.160	.420	.330	.160	.420	.330	.160	.420	.330	.180	.420	.330	.180	.550	.330	
.0027	.160	.420	.330	.160	.420	.330	.160	.420	.330	.160	.420	.330	.180	.550	.330	.180	.550	.330	
.0039	.160	.420	.330	.160	.420	.330	.160	.420	.330	.160	.420	.330	.180	.550	.330	.240	.550	.370	
.0047	.160	.420	.330	.160	.420	.330	.160	.420	.330	.160	.420	.330	.180	.550	.330	.240	.550	.370	
.0056	.160	.420	.330	.160	.420	.330	.160	.420	.330	.180	.420	.330	.180	.550	.330	.300	.550	.370	
.0068	.160	.420	.330	.160	.420	.330	.160	.420	.330	.180	.550	.330	.180	.550	.330	.300	.550	.370	
.0082	.160	.420	.330	.160	.420	.330	.180	.420	.330	.180	.550	.330	.240	.550	.370	.300	.670	.370	
.01	.160	.420	.330	.160	.420	.330	.180	.420	.330	.180	.550	.330	.240	.550	.370	.300	.670	.370	
.012	.160	.420	.330	.160	.420	.330	.180	.550	.330	.180	.550	.330	.240	.550	.370	.300	.670	.370	
.015	.160	.420	.330	.180	.420	.330	.180	.550	.330	.180	.550	.330	.300	.550	.430	.300	.670	.370	
.018	.180	.420	.330	.180	.420	.330	.180	.550	.330	.240	.550	.370	.300	.550	.430	.300	.820	.370	
.022	.180	.420	.330	.180	.420	.330	.180	.550	.330	.240	.550	.370	.300	.670	.430	.300	.820	.370	
.027	.180	.550	.330	.180	.550	.330	.240	.550	.370	.240	.550	.370	.300	.670	.430	.400	.820	.550	
.033	.180	.550	.330	.180	.550	.330	.240	.550	.370	.300	.550	.430	.300	.820	.430	.400	.820	.550	
.039	.180	.550	.330	.240	.550	.370	.240	.550	.370	.300	.550	.430	.300	.820	.430	.400	.820	.550	
.047	.180	.550	.330	.240	.550	.370	.300	.550	.430	.300	.670	.430	.300	.820	.430	.400	1.040	.550	
.056	.240	.550	.370	.300	.550	.430	.300	.550	.430	.300	.670	.430	.400	.820	.550	.400	1.040	.550	
.068	.240	.550	.370	.300	.550	.430	.300	.670	.430	.300	.670	.430	.400	.820	.550	.400	1.240	.550	
.082	.240	.550	.370	.300	.670	.430	.300	.670	.430	.300	.820	.430	.400	.820	.550	.400	1.240	.550	
.1	.300	.550	.430	.300	.670	.430	.300	.670	.430	.300	.820	.430	.400	1.040	.550	.570	1.240	.730	
.12	.300	.550	.430	.300	.670	.430	.300	.820	.430	.400	.820	.550	.400	1.240	.550	.570	1.240	.730	
.15	.300	.670	.430	.300	.820	.430	.300	.820	.430	.400	.820	.550	.400	1.240	.550	.570	1.240	.730	
.18	.300	.670	.430	.300	.820	.430	.400	.820	.550	.400	1.040	.550	.570	1.240	.730	.570	1.240	.730	
.22	.300	.820	.430	.400	.820	.550	.400	.820	.550	.400	1.240	.550	.570	1.240	.730	.700	1.240	.935	
.27	.300	.820	.430	.400	.820	.550	.400	1.040	.550	.400	1.240	.550	.570	1.240	.730	.700	1.240	.935	
.33	.400	.820	.550	.400	1.040	.550	.400	1.240	.550	.400	1.240	.550	.700	1.240	.935	.700	1.750	1.125	
.39	.400	.820	.550	.400	1.040	.550	.400	1.240	.550	.570	1.240	.730	.700	1.240	.935	.700	1.750	1.125	
.47	.400	.820	.550	.400	1.240	.550	.400	1.240	.550	.570	1.240	.730	.700	1.240	.935	.700	1.750	1.125	
.56	.400	1.040	.550	.400	1.240	.550	.570	1.240	.730	.570	1.240	.730	.700	1.750	1.125	.800	1.750	1.125	
.68	.400	1.040	.550	.570	1.240	.730	.570	1.240	.730	.700	1.240	.935	.700	1.750	1.125				
.82	.400	1.240	.550	.570	1.240	.730	.570	1.240	.730	.700	1.240	.935	.700	1.750	1.125				
1.0	.400	1.240	.550	.570	1.240	.730	.700	1.240	.935	.570	1.750	.730	.800	1.750	1.125				
1.25	.570	1.240	.730	.570	1.240	.730	.700	1.240	.935	.700	1.750	1.125							
1.5	.570	1.240	.730	.700	1.240	.935	.570	1.750	.730	.700	1.750	1.125							
2.0	.570	1.240	.730	.570	1.750	.730	.700	1.750	1.125	.800	1.750	1.125							
3.0				.800	1.750	1.125	.800	1.750	1.125										
4.0				.800	1.750	1.125													

ELECTRONIC FILM CAPACITORS, INC.

Reidville Industrial Park * 41 Interstate Lane * WATERBURY, CONNECTICUT 06705

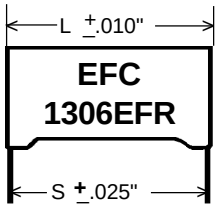
Phone (203) 755-5629 FAX (203) 755-0659

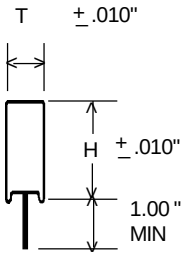
EFC will manufacture to any non-standard value and size. Please consult factory for special requirements.

1306EFR

Epoxy Case (Radial Leads)

Polyester (Mylar®) and Foil Capacitors





(All dimensions in inches)

Lead Specs.
Tinned Copperweld
B through E cases: 22 AWG
F through Q cases: 20 AWG

DIMENSIONS and RATINGS

Cap. µF	63/40 VDC/VAC	160/100 VDC/VAC	250/160 VDC/VAC	400/220 VDC/VAC	630/250 VDC/VAC
.001	B	B	B	B	C
.0012	B	B	B	B	C
.0015	B	B	B	B	C
.0022	B	B	B	B	C
.0027	B	B	B	C	D
.0039	B	B	B	C	E
.0047	B	B	B	C	E
.0056	B	B	B	C	F
.0068	B	B	C	D	F
.0082	B	B	C	D	F
.01	B	B	C	E	G
.012	B	B	C	E	G
.015	B	C	C	F	H
.018	B	C	D	F	H
.022	C	C	E	G	H
.027	C	C	E	G	K/M
.033	C	D	F	H	K/M
.039	C	D	F	H	N
.047	C	E	G	H	N
.056	D	E	G	K/M	O
.068	D	F	H	K/M	O
.082	E	G	H	N	P
.1	E	G	J/L	N	P
.12	F	G	K/M	O	P
.15	G	H	N	P	Q
.18	G	H	N	P	
.22	H	K/M	O	Q	
.27	H	K/M	O		
.33	J/L	N	P		
.39	K/M	N	P		
.47	N	O	Q		
.56	N	P	Q		
.68	O	P			
.82	O	P			
1.0	P	Q			
1.25	Q				
1.5	Q				

CASE SIZE	L mm / in.	T mm / in.	H mm / in.	S mm / in.
B	10.5 / .413	4 / .157	9 / .354	7.5 / .295
C	13 / .512	4 / .157	9 / .354	10 / .394
D	13 / .512	5 / .197	11 / .433	10 / .394
E	13 / .512	6 / .236	12 / .472	10 / .394
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

ELECTRONIC FILM CAPACITORS, INC.

Reidville Industrial Park * 41 Interstate Lane * WATERBURY, CONNECTICUT 06705

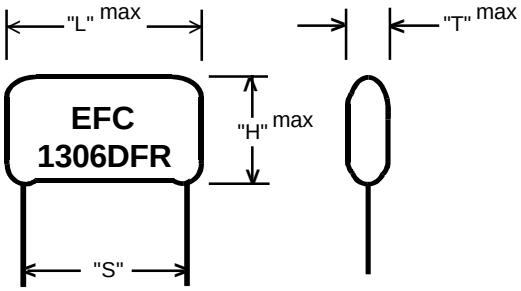
Phone (203) 755-5629 FAX (203) 755-0659

EFC will manufacture to any non-standard value and size. Please consult factory for special requirements.

1306DFR

Epoxy Dipped (Radial Leads)

Polyester (Mylar) and Foil Capacitors



(All dimensions in millimeters)

Lead Specs. - Tinned Copperweld

L	S	DIA.
10.5	7.5	0.6
13.0	10.0	0.6
18.5	15.0	0.8
26.0	22.5	0.8
31.0	27.5	0.8
44.0	38.0	1.0

DIMENSIONS and RATINGS

Cap.	1306DFR-3 100 VDC			1306DFR-3 160 VDC			1306DFR-3 250 VDC			1306DFR-3 400 VDC			1306DFR-3 630 VDC			1306DFR-3 1000 VDC			
µF	T	H	L	T	H	L	T	H	L	T	H	L	T	H	L	T	H	L	
.001	4.0	8.0	10.5	4.0	8.0	10.5	4.0	8.0	10.5	4.0	8.0	10.5	4.0	9.0	10.5	4.5	9.0	13.0	
.0012	4.0	8.0	10.5	4.0	8.0	10.5	4.0	8.0	10.5	4.0	9.0	10.5	4.0	9.0	10.5	4.5	9.5	13.0	
.0015	4.0	8.0	10.5	4.0	8.0	10.5	4.0	8.0	10.5	4.5	9.0	10.5	4.5	9.5	10.5	5.0	10.0	13.0	
.0022	4.0	8.0	10.5	4.5	8.0	10.5	4.5	8.5	10.5	4.5	9.0	10.5	4.5	9.5	13.0	5.5	11.0	13.0	
.0027	4.0	8.0	10.5	4.5	8.0	10.5	4.5	8.5	10.5	4.5	9.0	10.5	5.0	10.0	13.0	5.5	11.5	13.0	
.0039	4.5	8.0	10.5	4.5	9.0	10.5	4.5	9.0	10.5	4.5	9.0	10.5	5.5	11.0	13.0	6.0	12.5	13.0	
.0047	4.5	8.5	10.5	4.5	9.0	10.5	4.5	9.0	10.5	4.5	9.5	10.5	6.0	12.0	13.0	5.5	11.0	18.5	
.0056	4.5	8.5	10.5	4.5	9.0	10.5	4.5	9.0	10.5	4.5	9.5	13.0	6.5	12.5	13.0	6.0	11.5	18.5	
.0068	4.5	9.0	10.5	4.5	9.0	10.5	4.5	9.0	10.5	5.0	10.0	13.0	5.0	10.0	18.5	6.0	12.5	18.5	
.0082	4.5	9.0	10.5	4.5	9.0	10.5	4.5	9.0	13.0	5.5	10.5	13.0	5.5	11.0	18.5	7.0	13.0	18.5	
.01	4.5	9.0	10.5	4.5	9.0	10.5	4.5	9.0	13.0	5.5	11.0	13.0	6.0	12.0	18.5	7.5	14.0	18.5	
.012	4.5	9.0	10.5	4.5	9.0	10.5	4.5	9.0	13.0	6.0	12.0	13.0	6.5	12.5	18.5	8.0	14.5	18.5	
.015	4.5	9.0	10.5	4.5	9.0	13.0	5.0	10.0	13.0	6.5	12.5	13.0	7.0	13.0	18.5	9.0	16.5	18.5	
.018	4.5	9.0	10.5	4.5	9.5	13.0	5.5	11.0	13.0	5.5	11.0	18.5	7.5	13.5	18.5	8.0	14.0	26.0	
.022	4.5	9.0	10.5	5.0	10.0	13.0	6.0	12.0	13.0	6.0	12.0	18.5	8.0	14.5	18.5	8.5	15.5	26.0	
.027	4.5	9.0	13.5	5.5	11.0	13.0	5.0	10.0	18.5	6.5	12.5	18.5	7.5	13.5	26.0	9.0	16.5	26.0	
.033	5.0	9.5	13.0	6.0	12.5	13.0	5.5	10.5	18.5	7.5	13.5	18.5	8.5	15.5	26.0	9.5	18.0	26.0	
.039	5.0	10.0	13.0	5.0	10.0	18.5	5.5	11.0	18.5	8.0	14.0	18.5	9.0	16.5	26.0	10.0	19.0	26.0	
.047	5.5	11.0	13.0	5.5	10.5	18.5	6.0	12.0	18.5	8.5	15.5	18.5	9.5	18.0	26.0	10.0	19.0	31.0	
.056	6.0	12.0	13.0	5.5	11.0	18.5	6.5	12.5	18.5	7.5	13.5	26.0	9.0	16.5	31.0	10.5	20.0	31.0	
.068	6.5	12.5	13.0	6.0	12.0	18.5	7.0	13.0	18.5	8.0	14.0	26.0	9.5	17.0	31.0	12.0	22.0	31.0	
.082	5.0	10.0	18.5	6.5	12.5	18.5	7.5	14.0	18.5	8.5	15.5	26.0	10.0	19.0	31.0	12.5	23.0	31.0	
.1	5.5	11.0	18.5	7.5	13.5	18.5	8.5	15.5	18.5	9.0	16.5	26.0	10.5	20.0	31.0	15.0	27.0	31.0	
.12	6.0	12.0	18.5	8.0	14.0	18.5	8.0	14.0	26.0	9.5	18.0	26.0	11.5	22.0	31.0	13.5	24.0	36.0	
.15	6.5	12.5	18.5	8.5	16.0	18.5	8.5	15.5	26.0	9.5	18.0	31.0	14.0	24.0	31.0	15.0	27.0	36.0	
.18	7.5	13.5	18.5	8.0	14.0	26.0	9.0	16.5	26.0	10.0	19.0	31.0	13.0	23.0	36.0	14.5	26.0	44.0	
.22	8.5	15.5	18.5	8.5	15.5	26.0	9.5	18.0	26.0	11.5	20.0	31.0	15.0	26.0	36.0	16.0	28.0	44.0	
.27	8.0	14.0	26.0	9.0	16.5	26.0	9.5	18.0	31.0	12.5	22.0	31.0	16.0	28.0	36.0				
.33	8.5	15.5	26.0	9.5	18.0	26.0	10.0	20.0	31.0	13.0	23.0	36.0	16.0	28.0	44.0				
.39	9.0	16.5	26.0	9.5	18.0	31.0	11.0	21.0	31.0	13.5	25.0	36.0	16.5	30.0	44.0				
.47	9.5	18.0	26.0	10.0	20.0	31.0	12.0	22.0	31.0	15.0	27.0	36.0	18.0	32.0	44.0				
.56	9.0	16.5	31.0	11.0	21.0	31.0	13.0	24.0	31.0	14.0	25.0	44.0							
.68	9.5	18.0	31.0	12.5	22.0	31.0	13.0	24.0	36.0	15.0	27.0	44.0							
.82	10.5	20.0	31.0	13.0	24.0	31.0	14.5	26.0	36.0	16.5	30.0	44.0							
1.0	12.5	24.0	31.0	15.0	26.0	31.0	14.5	26.0	44.0	18.0	32.0	44.0							

EFC will manufacture to any non-standard value and size. Please consult factory for special requirements.

ELECTRONIC FILM CAPACITORS, INC.

Reidville Industrial Park * 41 Interstate Lane * WATERBURY, CONNECTICUT 06705

Phone (203) 755-5629 * E-Mail: efc@filmcapacitors.com * FAX (203) 755-0659