Series 1306
Polyester and Foil

Features: Flame retardant to UL94, cost effective, moderate temperature choice, small size, dv/dt ratings in excess of 1000 V/us.
Applications: Recommended for DC applications where blocking capacitance stability is not a critical factor, medical electronics, telecommunications.
Packaging: Axial wrap and fill (TF,TC), radial lead box (EFR, DFR), axial lead epoxy tube (EC).

Specifications

1) Temperature Range
-55°C to 85°C at rated voltage to 125°C with 50% voltage derating.

2) Capacitance
0.001µf to 10µF

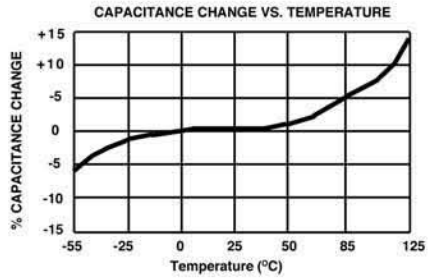
3) Dielectric Strength
At 25°C, 200% of rated voltage when applied terminal to terminal for one minute through a current limiting resistance.

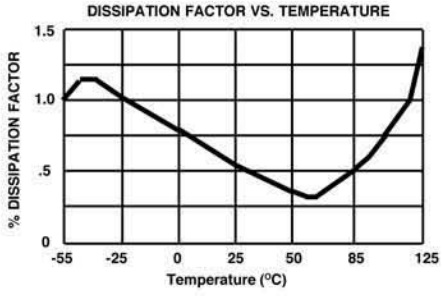
4) Insulation Resistance
At 25°C after 2 minutes charge time at rated voltage or 500 VDC, whichever is less, the minimum IR shall be 50,000 Megohm-Microfarads, but need not exceed 100,000 Megohms.

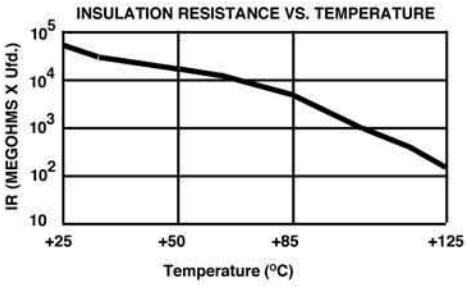
5) Humidity Resistance
Series 1306 shall meet the requirements of MIL-STD. 202, Method 103B.

6) Dissipation Factor
Shall be 0.6% max. when measured at 1 KHz and 25°C.

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 and Foil

41 Interstate Lane, Waterbury, CT 06705 . (203) 755.5629 . (203) 755.0659 Fax
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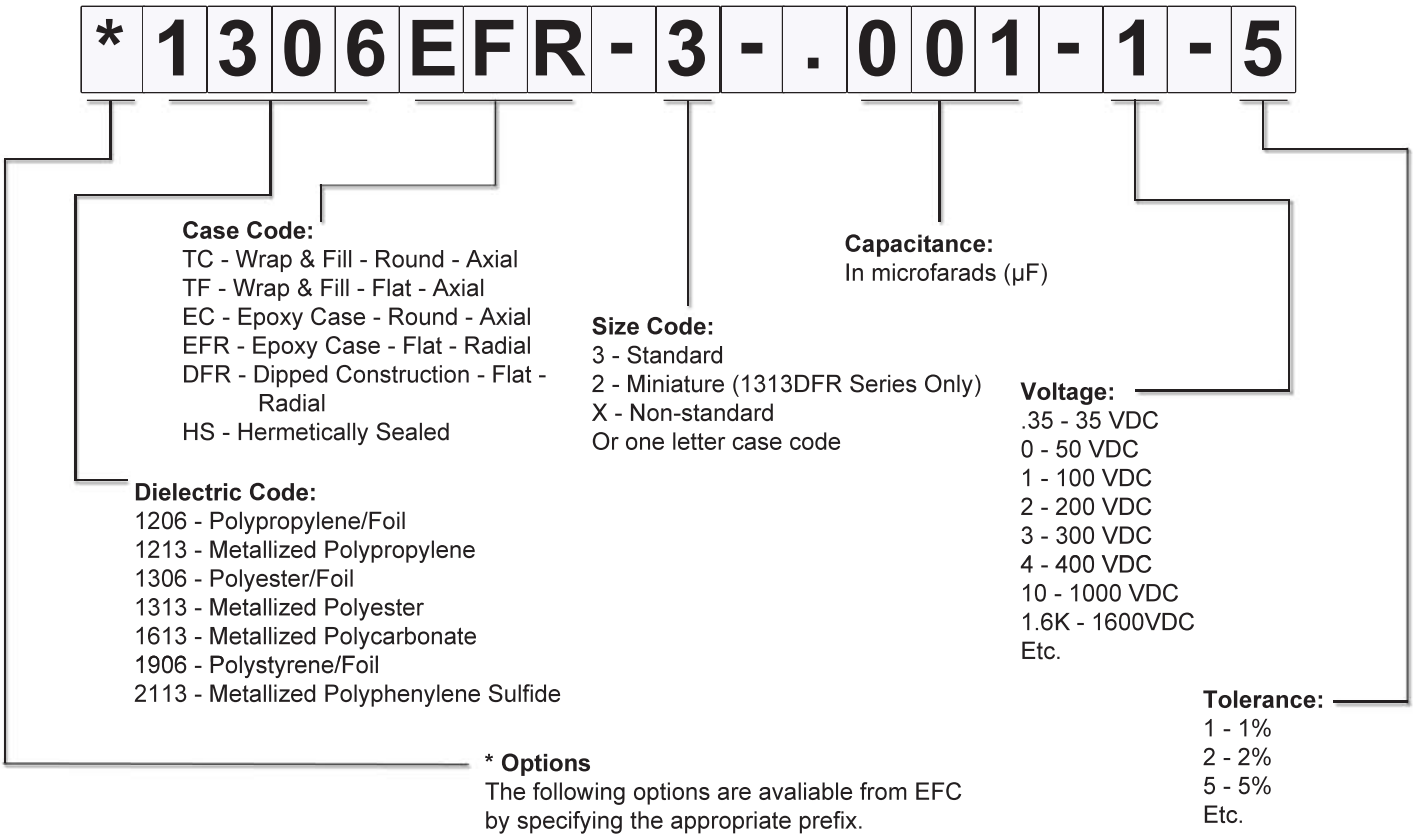
Catalog Nomenclature



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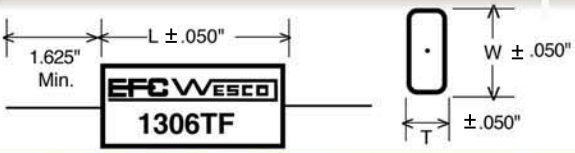
1306TF
Oval Wrap & Fill

Polyester and Foil Capacitors

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



Dimensions and Ratings

Cap.	50 VDC			
µF	Part #	T	W	L
.001	1306TF-3-.001-0-*	.120	.210	.406
.0012	1306TF-3-.0012-0-*	.120	.210	.406
.0015	1306TF-3-.0015-0-*	.120	.210	.406
.0022	1306TF-3-.0022-0-*	.120	.210	.406
.0027	1306TF-3-.0027-0-*	.120	.210	.406
.0039	1306TF-3-.0039-0-*	.120	.210	.406
.0047	1306TF-3-.0047-0-*	.120	.210	.406
.0056	1306TF-3-.0056-0-*	.120	.210	.406
.0068	1306TF-3-.0068-0-*	.120	.210	.406
.0082	1306TF-3-.0082-0-*	.120	.210	.406
.01	1306TF-3-.01-0-*	.120	.210	.406
.012	1306TF-3-.012-0-*	.120	.210	.406
.015	1306TF-3-.015-0-*	.120	.220	.406
.018	1306TF-3-.018-0-*	.140	.230	.406
.022	1306TF-3-.022-0-*	.150	.240	.406
.027	1306TF-3-.027-0-*	.170	.270	.406
.033	1306TF-3-.033-0-*	.120	.210	.531
.039	1306TF-3-.039-0-*	.130	.220	.531
.047	1306TF-3-.047-0-*	.140	.240	.531
.056	1306TF-3-.056-0-*	.160	.250	.531
.068	1306TF-3-.068-0-*	.180	.270	.531
.082	1306TF-3-.082-0-*	.200	.300	.531
.1	1306TF-3-.1-0-*	.230	.320	.531
.12	1306TF-3-.12-0-*	.190	.290	.656
.15	1306TF-3-.15-0-*	.220	.310	.656
.18	1306TF-3-.18-0-*	.250	.340	.656
.22	1306TF-3-.22-0-*	.280	.370	.656
.27	1306TF-3-.27-0-*	.310	.410	.656
.33	1306TF-3-.33-0-*	.280	.400	.781
.39	1306TF-3-.39-0-*	.310	.430	.781
.47	1306TF-3-.47-0-*	.340	.470	1.190
.56	1306TF-3-.56-0-*	.330	.460	1.190
.68	1306TF-3-.68-0-*	.370	.500	1.190
.82	1306TF-3-.82-0-*	.410	.540	1.190
1.0	1306TF-3-1.0-0-*	.360	.520	1.190
1.25	1306TF-3-1.25-0-*	.410	.580	1.190
1.5	1306TF-3-1.5-0-*	.460	.620	1.190
2.0	1306TF-3-2.0-0-*	.540	.710	1.190

Cap.	100 VDC			
µF	Part #	T	W	L
.001	1306TF-3-.001-1-*	.120	.210	.406
.0012	1306TF-3-.0012-1-*	.120	.210	.406
.0015	1306TF-3-.0015-1-*	.120	.210	.406
.0022	1306TF-3-.0022-1-*	.120	.210	.406
.0027	1306TF-3-.0027-1-*	.120	.210	.406
.0039	1306TF-3-.0039-1-*	.120	.210	.406
.0047	1306TF-3-.0047-1-*	.120	.210	.406
.0056	1306TF-3-.0056-1-*	.120	.210	.406
.0068	1306TF-3-.0068-1-*	.120	.210	.406
.0082	1306TF-3-.0082-1-*	.120	.210	.406
.01	1306TF-3-.01-1-*	.120	.220	.406
.012	1306TF-3-.012-1-*	.140	.230	.406
.015	1306TF-3-.015-1-*	.160	.250	.406
.018	1306TF-3-.018-1-*	.180	.270	.406
.022	1306TF-3-.022-1-*	.120	.210	.531
.027	1306TF-3-.027-1-*	.140	.230	.531
.033	1306TF-3-.033-1-*	.150	.250	.531
.039	1306TF-3-.039-1-*	.170	.270	.531
.047	1306TF-3-.047-1-*	.190	.290	.531
.056	1306TF-3-.056-1-*	.210	.310	.531
.068	1306TF-3-.068-1-*	.180	.280	.656
.082	1306TF-3-.082-1-*	.210	.300	.656
.1	1306TF-3-.1-1-*	.230	.330	.656
.12	1306TF-3-.12-1-*	.260	.350	.656
.15	1306TF-3-.15-1-*	.290	.390	.656
.18	1306TF-3-.18-1-*	.330	.420	.656
.22	1306TF-3-.22-1-*	.290	.420	.781
.27	1306TF-3-.27-1-*	.330	.450	.781
.33	1306TF-3-.33-1-*	.320	.450	.906
.39	1306TF-3-.39-1-*	.360	.480	.906
.47	1306TF-3-.47-1-*	.400	.520	.906
.56	1306TF-3-.56-1-*	.340	.500	1.190
.68	1306TF-3-.68-1-*	.380	.550	1.190
.82	1306TF-3-.82-1-*	.430	.590	1.190
1.0	1306TF-3-1.0-1-*	.480	.640	1.190
1.25	1306TF-3-1.25-1-*	.540	.710	1.190
1.5	1306TF-3-1.5-1-*	.520	.690	1.440
2.0	1306TF-3-2.0-1-*	.610	.780	1.440
3.0	1306TF-3-3.0-1-*	.670	.870	1.690
4.0	1306TF-3-4.0-1-*	.790	.990	1.690
5.0	1306TF-3-5.0-1-*	.900	1.090	1.690

Cap.	160 VDC			
µF	Part #	T	W	L
.001	1306TF-3-.001-1.6-*	.120	.210	.406
.0012	1306TF-3-.0012-1.6-*	.120	.210	.406
.0015	1306TF-3-.0015-1.6-*	.120	.210	.406
.0022	1306TF-3-.0022-1.6-*	.120	.210	.406
.0027	1306TF-3-.0027-1.6-*	.120	.210	.406
.0039	1306TF-3-.0039-1.6-*	.120	.210	.406
.0047	1306TF-3-.0047-1.6-*	.120	.210	.406
.0056	1306TF-3-.0056-1.6-*	.120	.210	.406
.0068	1306TF-3-.0068-1.6-*	.120	.210	.406
.0082	1306TF-3-.0082-1.6-*	.130	.220	.406
.01	1306TF-3-.01-1.6-*	.150	.240	.406
.012	1306TF-3-.012-1.6-*	.160	.260	.406
.015	1306TF-3-.015-1.6-*	.110	.200	.531
.018	1306TF-3-.018-1.6-*	.120	.220	.531
.022	1306TF-3-.022-1.6-*	.140	.240	.531
.027	1306TF-3-.027-1.6-*	.160	.260	.531
.033	1306TF-3-.033-1.6-*	.180	.280	.531
.039	1306TF-3-.039-1.6-*	.200	.300	.531
.047	1306TF-3-.047-1.6-*	.230	.320	.531
.056	1306TF-3-.056-1.6-*	.190	.290	.656
.068	1306TF-3-.068-1.6-*	.220	.310	.656
.082	1306TF-3-.082-1.6-*	.240	.340	.656
.1	1306TF-3-.1-1.6-*	.270	.360	.656
.12	1306TF-3-.12-1.6-*	.300	.400	.656
.15	1306TF-3-.15-1.6-*	.270	.400	.781
.18	1306TF-3-.18-1.6-*	.300	.430	.781
.22	1306TF-3-.22-1.6-*	.340	.470	.781
.27	1306TF-3-.27-1.6-*	.330	.460	.906
.33	1306TF-3-.33-1.6-*	.380	.500	.906
.39	1306TF-3-.39-1.6-*	.420	.540	.906
.47	1306TF-3-.47-1.6-*	.360	.520	1.190
.56	1306TF-3-.56-1.6-*	.400	.560	1.190
.68	1306TF-3-.68-1.6-*	.450	.610	1.190
.82	1306TF-3-.82-1.6-*	.500	.660	1.190
1.0	1306TF-3-1.0-1.6-*	.560	.730	1.190
1.25	1306TF-3-1.25-1.6-*	.550	.710	1.440
1.5	1306TF-3-1.5-1.6-*	.610	.770	1.440
2.0	1306TF-3-2.0-1.6-*	.620	.820	1.690
3.0	1306TF-3-3.0-1.6-*	.780	.980	1.690
4.0	1306TF-3-4.0-1.6-*	.920	1.120	1.690
5.0	1306TF-3-5.0-1.6-*	.950	1.140	1.940
6.0	1306TF-3-6.0-1.6-*	1.050	1.250	1.940
8.0	1306TF-3-8.0-1.6-*	1.130	1.330	2.250

*** - Please insert appropriate tolerance code**

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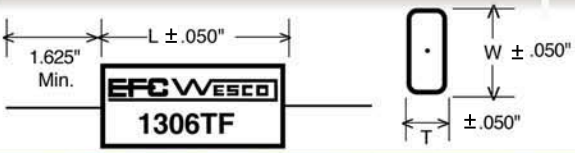

Dimensions and Ratings

Cap.	200 VDC			
µF	Part #	T	W	L
.001	1306TF-3-.001-2-*	.120	.210	.406
.0012	1306TF-3-.0012-2-*	.120	.210	.406
.0015	1306TF-3-.0015-2-*	.120	.210	.406
.0022	1306TF-3-.0022-2-*	.120	.210	.406
.0027	1306TF-3-.0027-2-*	.120	.210	.406
.0039	1306TF-3-.0039-2-*	.120	.210	.406
.0047	1306TF-3-.0047-2-*	.120	.210	.406
.0056	1306TF-3-.0056-2-*	.130	.230	.406
.0068	1306TF-3-.0068-2-*	.150	.250	.406
.0082	1306TF-3-.0082-2-*	.170	.260	.406
.01	1306TF-3-.01-2-*	.190	.280	.406
.012	1306TF-3-.012-2-*	.120	.220	.531
.015	1306TF-3-.015-2-*	.140	.240	.531
.018	1306TF-3-.018-2-*	.160	.250	.531
.022	1306TF-3-.022-2-*	.180	.270	.531
.027	1306TF-3-.027-2-*	.200	.300	.531
.033	1306TF-3-.033-2-*	.230	.320	.531
.039	1306TF-3-.039-2-*	.190	.290	.656
.047	1306TF-3-.047-2-*	.220	.310	.656
.056	1306TF-3-.056-2-*	.240	.340	.656
.068	1306TF-3-.068-2-*	.270	.360	.656
.082	1306TF-3-.082-2-*	.300	.400	.656
.1	1306TF-3-.1-2-*	.270	.390	.781
.12	1306TF-3-.12-2-*	.300	.420	.781
.15	1306TF-3-.15-2-*	.340	.470	.781
.18	1306TF-3-.18-2-*	.330	.460	.906
.22	1306TF-3-.22-2-*	.370	.500	.906
.27	1306TF-3-.27-2-*	.420	.540	.906
.33	1306TF-3-.33-2-*	.360	.530	1.190
.39	1306TF-3-.39-2-*	.400	.570	1.190
.47	1306TF-3-.47-2-*	.450	.620	1.190
.56	1306TF-3-.56-2-*	.500	.670	1.190
.68	1306TF-3-.68-2-*	.560	.720	1.190
.82	1306TF-3-.82-2-*	.540	.700	1.440
1.0	1306TF-3-1.0-2-*	.590	.780	1.440
1.25	1306TF-3-1.25-2-*	.590	.790	1.690
1.5	1306TF-3-1.5-2-*	.660	.850	1.690
2.0	1306TF-3-2.0-2-*	.700	.900	1.940
3.0	1306TF-3-3.0-2-*	.880	1.080	1.940

Cap.	400 VDC			
µF	Part #	T	W	L
.001	1306TF-3-.001-4-*	.120	.210	.406
.0012	1306TF-3-.0012-4-*	.120	.210	.406
.0015	1306TF-3-.0015-4-*	.120	.210	.406
.0022	1306TF-3-.0022-4-*	.140	.240	.406
.0027	1306TF-3-.0027-4-*	.160	.260	.406
.0039	1306TF-3-.0039-4-*	.200	.300	.406
.0047	1306TF-3-.0047-4-*	.120	.210	.531
.0056	1306TF-3-.0056-4-*	.130	.220	.531
.0068	1306TF-3-.0068-4-*	.140	.240	.531
.0082	1306TF-3-.0082-4-*	.150	.260	.531
.01	1306TF-3-.01-4-*	.180	.280	.531
.012	1306TF-3-.012-4-*	.210	.300	.531
.015	1306TF-3-.015-4-*	.230	.330	.531
.018	1306TF-3-.018-4-*	.190	.290	.656
.022	1306TF-3-.022-4-*	.220	.310	.656
.027	1306TF-3-.027-4-*	.250	.340	.656
.033	1306TF-3-.033-4-*	.280	.370	.656
.039	1306TF-3-.039-4-*	.300	.400	.656
.047	1306TF-3-.047-4-*	.260	.390	.781
.056	1306TF-3-.056-4-*	.290	.420	.781
.068	1306TF-3-.068-4-*	.330	.460	.781
.082	1306TF-3-.082-4-*	.320	.440	.906
.1	1306TF-3-.1-4-*	.360	.480	.906
.12	1306TF-3-.12-4-*	.400	.520	.906
.15	1306TF-3-.15-4-*	.350	.510	1.190
.18	1306TF-3-.18-4-*	.390	.550	1.190
.22	1306TF-3-.22-4-*	.440	.600	1.190
.27	1306TF-3-.27-4-*	.490	.660	1.190
.33	1306TF-3-.33-4-*	.470	.640	1.440
.39	1306TF-3-.39-4-*	.520	.690	1.440
.47	1306TF-3-.47-4-*	.580	.750	1.440
.56	1306TF-3-.56-4-*	.550	.750	1.690
.68	1306TF-3-.68-4-*	.620	.820	1.690
.82	1306TF-3-.82-4-*	.690	.890	1.690
1.0	1306TF-3-1.0-4-*	.700	.900	1.940
1.25	1306TF-3-1.25-4-*	.790	.990	1.940
1.5	1306TF-3-1.5-4-*	.880	1.080	1.940
2.0	1306TF-3-2.0-4-*	.950	1.150	2.250
3.0	1306TF-3-3.0-4-*	1.190	1.390	2.250

Cap.	600 VDC			
µF	Part #	T	W	L
.001	1306TF-3-.001-6-*	.120	.210	.531
.0012	1306TF-3-.0012-6-*	.120	.210	.531
.0015	1306TF-3-.0015-6-*	.120	.210	.531
.0022	1306TF-3-.0022-6-*	.130	.220	.531
.0027	1306TF-3-.0027-6-*	.140	.240	.531
.0039	1306TF-3-.0039-6-*	.180	.270	.531
.0047	1306TF-3-.0047-6-*	.200	.300	.531
.0056	1306TF-3-.0056-6-*	.220	.320	.531
.0068	1306TF-3-.0068-6-*	.170	.260	.656
.0082	1306TF-3-.0082-6-*	.190	.280	.656
.01	1306TF-3-.01-6-*	.210	.300	.656
.012	1306TF-3-.012-6-*	.230	.330	.656
.015	1306TF-3-.015-6-*	.270	.360	.656
.018	1306TF-3-.018-6-*	.300	.390	.656
.022	1306TF-3-.022-6-*	.250	.370	.781
.027	1306TF-3-.027-6-*	.280	.410	.781
.033	1306TF-3-.033-6-*	.320	.440	.781
.039	1306TF-3-.039-6-*	.290	.420	.906
.047	1306TF-3-.047-6-*	.330	.460	.906
.056	1306TF-3-.056-6-*	.370	.490	.906
.068	1306TF-3-.068-6-*	.410	.530	.906
.082	1306TF-3-.082-6-*	.340	.510	1.190
.1	1306TF-3-.1-6-*	.380	.550	1.190
.12	1306TF-3-.12-6-*	.430	.600	1.190
.15	1306TF-3-.15-6-*	.490	.660	1.190
.18	1306TF-3-.18-6-*	.540	.710	1.190
.22	1306TF-3-.22-6-*	.520	.680	1.440
.27	1306TF-3-.27-6-*	.580	.750	1.440
.33	1306TF-3-.33-6-*	.560	.760	1.690
.39	1306TF-3-.39-6-*	.620	.810	1.690
.47	1306TF-3-.47-6-*	.690	.880	1.690
.56	1306TF-3-.56-6-*	.680	.880	1.940
.68	1306TF-3-.68-6-*	.760	.960	1.940
.82	1306TF-3-.82-6-*	.850	1.050	1.940
1.0	1306TF-3-1.0-6-*	.950	1.150	1.940
1.25	1306TF-3-1.25-6-*	.990	1.180	2.250
1.5	1306TF-3-1.5-6-*	1.090	1.290	2.250

*** - Please insert appropriate tolerance code**

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