

Series 1313 Metallized Polyester

Features: Flame retardant to UL94, small size, self healing, low costs.

Applications: Medical electronics, telecommunications, high voltage power supplies.

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 20μF

3) Dielectric Strength

At 25°C, 150% 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 30,000 Megohm-Microfarads, but need not exceed 50,000 Megohms for voltages greater than 50 VDC, and 15,000 Megohm-Microfarads, but need not exceed 30,000 Megohms for 50 VDC or less.

5) Humidity Resistance

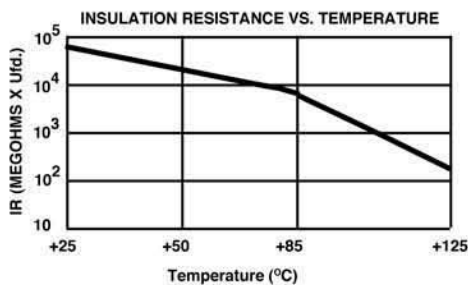
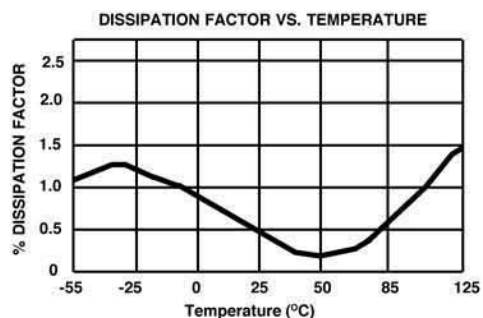
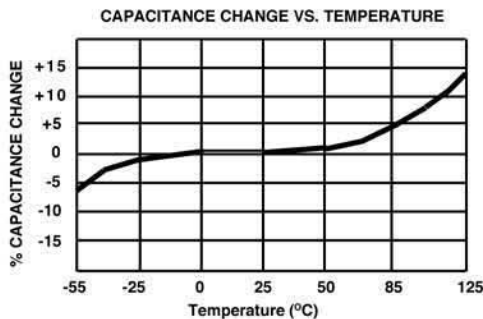
Series 1313 shall meet the requirements of MIL-STD. 202, Method 103B.

6) Dissipation Factor

Shall be 1.0% max. when measured 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.



**Typical Temperature Curves
Metallized Polyester**

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 (μ 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



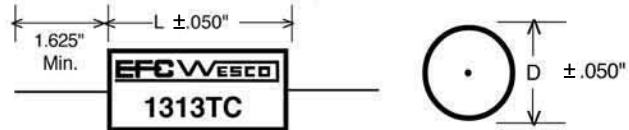
Please consult factory for special requirements, including non-standard values and sizes

1313TC Tubular Wrap & Fill

Metallized Polyester Capacitors

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

Dimensions and Ratings



50 VDC		D	L
Cap. μ F	Part #		
.001	1313TC-3-.001-0-*	.180	.406
.0012	1313TC-3-.0012-0-*	.180	.406
.0015	1313TC-3-.0015-0-*	.180	.406
.0018	1313TC-3-.0018-0-*	.180	.406
.0022	1313TC-3-.0022-0-*	.180	.406
.0027	1313TC-3-.0027-0-*	.180	.406
.0033	1313TC-3-.0033-0-*	.180	.406
.0039	1313TC-3-.0039-0-*	.180	.406
.0047	1313TC-3-.0047-0-*	.180	.406
.0056	1313TC-3-.0056-0-*	.180	.406
.0068	1313TC-3-.0068-0-*	.180	.406
.0082	1313TC-3-.0082-0-*	.180	.406
.01	1313TC-3-.01-0-*	.180	.406
.012	1313TC-3-.012-0-*	.180	.406
.015	1313TC-3-.015-0-*	.180	.406
.018	1313TC-3-.018-0-*	.180	.406
.022	1313TC-3-.022-0-*	.180	.406
.027	1313TC-3-.027-0-*	.180	.406
.033	1313TC-3-.033-0-*	.180	.406
.039	1313TC-3-.039-0-*	.180	.406
.047	1313TC-3-.047-0-*	.180	.406
.056	1313TC-3-.056-0-*	.180	.406
.068	1313TC-3-.068-0-*	.180	.406
.082	1313TC-3-.082-0-*	.180	.406
.1	1313TC-3-.1-0-*	.180	.406
.12	1313TC-3-.12-0-*	.190	.406
.15	1313TC-3-.15-0-*	.200	.406
.18	1313TC-3-.18-0-*	.220	.406
.22	1313TC-3-.22-0-*	.190	.468
.27	1313TC-3-.27-0-*	.210	.468
.33	1313TC-3-.33-0-*	.230	.468
.39	1313TC-3-.39-0-*	.250	.468
.47	1313TC-3-.47-0-*	.230	.531
.56	1313TC-3-.56-0-*	.250	.531
.68	1313TC-3-.68-0-*	.270	.531
.82	1313TC-3-.82-0-*	.240	.656
1.0	1313TC-3-1.0-0-*	.270	.656
1.25	1313TC-3-1.25-0-*	.300	.656
1.5	1313TC-3-1.5-0-*	.300	.781
2.0	1313TC-3-2.0-0-*	.350	.781
3.0	1313TC-3-3.0-0-*	.400	.781
4.0	1313TC-3-4.0-0-*	.420	.906
5.0	1313TC-3-5.0-0-*	.470	.906
6.0	1313TC-3-6.0-0-*	.440	1.190
10.0	1313TC-3-10.0-0-*	.500	1.190
20.0	1313TC-3-20.0-0-*	.700	1.440

100 VDC		D	L
Cap. μ F	Part #		
.001	1313TC-3-.001-1-*	.180	.406
.0012	1313TC-3-.0012-1-*	.180	.406
.0015	1313TC-3-.0015-1-*	.180	.406
.0018	1313TC-3-.0018-1-*	.180	.406
.0022	1313TC-3-.0022-1-*	.180	.406
.0027	1313TC-3-.0027-1-*	.180	.406
.0033	1313TC-3-.0033-1-*	.180	.406
.0039	1313TC-3-.0039-1-*	.180	.406
.0047	1313TC-3-.0047-1-*	.180	.406
.0056	1313TC-3-.0056-1-*	.180	.406
.0068	1313TC-3-.0068-1-*	.180	.406
.0082	1313TC-3-.0082-1-*	.180	.406
.01	1313TC-3-.01-1-*	.180	.406
.012	1313TC-3-.012-1-*	.180	.406
.015	1313TC-3-.015-1-*	.180	.406
.018	1313TC-3-.018-1-*	.180	.406
.022	1313TC-3-.022-1-*	.180	.406
.027	1313TC-3-.027-1-*	.180	.406
.033	1313TC-3-.033-1-*	.180	.406
.039	1313TC-3-.039-1-*	.180	.406
.047	1313TC-3-.047-1-*	.180	.406
.056	1313TC-3-.056-1-*	.200	.406
.068	1313TC-3-.068-1-*	.220	.406
.082	1313TC-3-.082-1-*	.190	.468
.1	1313TC-3-.1-1-*	.210	.468
.12	1313TC-3-.12-1-*	.220	.468
.15	1313TC-3-.15-1-*	.210	.531
.18	1313TC-3-.18-1-*	.230	.531
.22	1313TC-3-.22-1-*	.250	.531
.27	1313TC-3-.27-1-*	.280	.531
.33	1313TC-3-.33-1-*	.250	.656
.39	1313TC-3-.39-1-*	.270	.656
.47	1313TC-3-.47-1-*	.290	.656
.56	1313TC-3-.56-1-*	.310	.656
.68	1313TC-3-.68-1-*	.300	.781
.82	1313TC-3-.82-1-*	.330	.781
1.0	1313TC-3-1.0-1-*	.360	.781
1.25	1313TC-3-1.25-1-*	.400	.781
1.5	1313TC-3-1.5-1-*	.390	.906
2.0	1313TC-3-2.0-1-*	.440	.906
3.0	1313TC-3-3.0-1-*	.460	1.190
4.0	1313TC-3-4.0-1-*	.530	1.190
5.0	1313TC-3-5.0-1-*	.520	1.440
6.0	1313TC-3-6.0-1-*	.560	1.440
10.0	1313TC-3-10.0-1-*	.690	1.570
20.0	1313TC-3-20.0-1-*	.920	1.690

160 VDC		D	L
Cap. μ F	Part #		
.001	1313TC-3-.001-1.6-*	.180	.406
.0012	1313TC-3-.0012-1.6-*	.180	.406
.0015	1313TC-3-.0015-1.6-*	.180	.406
.0018	1313TC-3-.0018-1.6-*	.180	.406
.0022	1313TC-3-.0022-1.6-*	.180	.406
.0027	1313TC-3-.0027-1.6-*	.180	.406
.0033	1313TC-3-.0033-1.6-*	.180	.406
.0039	1313TC-3-.0039-1.6-*	.180	.406
.0047	1313TC-3-.0047-1.6-*	.180	.406
.0056	1313TC-3-.0056-1.6-*	.180	.406
.0068	1313TC-3-.0068-1.6-*	.180	.406
.0082	1313TC-3-.0082-1.6-*	.180	.406
.01	1313TC-3-.01-1.6-*	.180	.406
.012	1313TC-3-.012-1.6-*	.180	.406
.015	1313TC-3-.015-1.6-*	.180	.406
.018	1313TC-3-.018-1.6-*	.180	.406
.022	1313TC-3-.022-1.6-*	.180	.406
.027	1313TC-3-.027-1.6-*	.200	.406
.033	1313TC-3-.033-1.6-*	.220	.406
.039	1313TC-3-.039-1.6-*	.230	.406
.047	1313TC-3-.047-1.6-*	.240	.406
.056	1313TC-3-.056-1.6-*	.250	.406
.068	1313TC-3-.068-1.6-*	.200	.531
.082	1313TC-3-.082-1.6-*	.220	.531
.1	1313TC-3-.1-1.6-*	.240	.531
.12	1313TC-3-.12-1.6-*	.260	.531
.15	1313TC-3-.15-1.6-*	.240	.656
.18	1313TC-3-.18-1.6-*	.260	.656
.22	1313TC-3-.22-1.6-*	.280	.656
.27	1313TC-3-.27-1.6-*	.310	.656
.33	1313TC-3-.33-1.6-*	.350	.656
.39	1313TC-3-.39-1.6-*	.320	.781
.47	1313TC-3-.47-1.6-*	.350	.781
.56	1313TC-3-.56-1.6-*	.380	.781
.68	1313TC-3-.68-1.6-*	.380	.906
.82	1313TC-3-.82-1.6-*	.410	.906
1.0	1313TC-3-1.0-1.6-*	.450	.906
1.25	1313TC-3-1.25-1.6-*	.430	1.190
1.5	1313TC-3-1.5-1.6-*	.470	1.190
2.0	1313TC-3-2.0-1.6-*	.540	1.190
3.0	1313TC-3-3.0-1.6-*	.580	1.440
4.0	1313TC-3-4.0-1.6-*	.660	1.440
5.0	1313TC-3-5.0-1.6-*	.700	1.570
6.0	1313TC-3-6.0-1.6-*	.770	1.570
10.0	1313TC-3-10.0-1.6-*	.940	1.690
20.0	1313TC-3-20.0-1.6-*	1.200	1.940

* - Please insert appropriate tolerance code



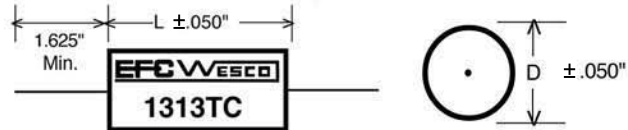
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1313TC Tubular Wrap & Fill

Metallized Polyester Capacitors

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

Dimensions and Ratings



200 VDC			
Cap. μ F	Part #	D	L
.001	1313TC-3-.001-2-*	.180	.406
.0012	1313TC-3-.0012-2-*	.180	.406
.0015	1313TC-3-.0015-2-*	.180	.406
.0018	1313TC-3-.0018-2-*	.180	.406
.0022	1313TC-3-.0022-2-*	.180	.406
.0027	1313TC-3-.0027-2-*	.180	.406
.0033	1313TC-3-.0033-2-*	.180	.406
.0039	1313TC-3-.0039-2-*	.180	.406
.0047	1313TC-3-.0047-2-*	.180	.406
.0056	1313TC-3-.0056-2-*	.180	.406
.0068	1313TC-3-.0068-2-*	.180	.406
.0082	1313TC-3-.0082-2-*	.180	.406
.01	1313TC-3-.01-2-*	.180	.406
.012	1313TC-3-.012-2-*	.180	.406
.015	1313TC-3-.015-2-*	.180	.406
.018	1313TC-3-.018-2-*	.180	.406
.022	1313TC-3-.022-2-*	.200	.406
.027	1313TC-3-.027-2-*	.220	.406
.033	1313TC-3-.033-2-*	.240	.406
.039	1313TC-3-.039-2-*	.190	.531
.047	1313TC-3-.047-2-*	.200	.531
.056	1313TC-3-.056-2-*	.210	.531
.068	1313TC-3-.068-2-*	.220	.531
.082	1313TC-3-.082-2-*	.250	.531
.1	1313TC-3-.1-2-*	.270	.531
.12	1313TC-3-.12-2-*	.290	.531
.15	1313TC-3-.15-2-*	.250	.656
.18	1313TC-3-.18-2-*	.290	.656
.22	1313TC-3-.22-2-*	.320	.656
.27	1313TC-3-.27-2-*	.300	.781
.33	1313TC-3-.33-2-*	.330	.781
.39	1313TC-3-.39-2-*	.360	.781
.47	1313TC-3-.47-2-*	.400	.781
.56	1313TC-3-.56-2-*	.380	.906
.68	1313TC-3-.68-2-*	.420	.906
.82	1313TC-3-.82-2-*	.450	.906
1.0	1313TC-3-1.0-2-*	.430	1.190
1.25	1313TC-3-1.25-2-*	.480	1.190
1.5	1313TC-3-1.5-2-*	.530	1.190
2.0	1313TC-3-2.0-2-*	.600	1.190
3.0	1313TC-3-3.0-2-*	.650	1.440
4.0	1313TC-3-4.0-2-*	.740	1.440
5.0	1313TC-3-5.0-2-*	.790	1.570
6.0	1313TC-3-6.0-2-*	.820	1.690
10.0	1313TC-3-10.0-2-*	.970	1.940

400 VDC			
Cap. μ F	Part #	D	L
.001	1313TC-3-.001-4-*	.180	.406
.0012	1313TC-3-.0012-4-*	.180	.406
.0015	1313TC-3-.0015-4-*	.180	.406
.0018	1313TC-3-.0018-4-*	.180	.406
.0022	1313TC-3-.0022-4-*	.180	.406
.0027	1313TC-3-.0027-4-*	.180	.406
.0033	1313TC-3-.0033-4-*	.180	.406
.0039	1313TC-3-.0039-4-*	.180	.406
.0047	1313TC-3-.0047-4-*	.180	.406
.0056	1313TC-3-.0056-4-*	.180	.406
.0068	1313TC-3-.0068-4-*	.180	.406
.0082	1313TC-3-.0082-4-*	.180	.406
.01	1313TC-3-.01-4-*	.180	.406
.012	1313TC-3-.012-4-*	.180	.406
.015	1313TC-3-.015-4-*	.180	.406
.018	1313TC-3-.018-4-*	.200	.531
.022	1313TC-3-.022-4-*	.220	.531
.027	1313TC-3-.027-4-*	.240	.531
.033	1313TC-3-.033-4-*	.260	.531
.039	1313TC-3-.039-4-*	.280	.531
.047	1313TC-3-.047-4-*	.250	.656
.056	1313TC-3-.056-4-*	.270	.656
.068	1313TC-3-.068-4-*	.290	.656
.082	1313TC-3-.082-4-*	.320	.656
.1	1313TC-3-.1-4-*	.310	.781
.12	1313TC-3-.12-4-*	.340	.781
.15	1313TC-3-.15-4-*	.370	.781
.18	1313TC-3-.18-4-*	.410	.781
.22	1313TC-3-.22-4-*	.400	.906
.27	1313TC-3-.27-4-*	.440	.906
.33	1313TC-3-.33-4-*	.490	.906
.39	1313TC-3-.39-4-*	.450	1.190
.47	1313TC-3-.47-4-*	.490	1.190
.56	1313TC-3-.56-4-*	.530	1.190
.68	1313TC-3-.68-4-*	.580	1.190
.82	1313TC-3-.82-4-*	.640	1.190
1.0	1313TC-3-1.0-4-*	.620	1.440
1.25	1313TC-3-1.25-4-*	.690	1.440
1.5	1313TC-3-1.5-4-*	.760	1.440
2.0	1313TC-3-2.0-4-*	.790	1.690
3.0	1313TC-3-3.0-4-*	.960	1.690

600 VDC			
Cap. μ F	Part #	D	L
.001	1313TC-3-.001-6-*	.180	.406
.0012	1313TC-3-.0012-6-*	.180	.406
.0015	1313TC-3-.0015-6-*	.180	.406
.0018	1313TC-3-.0018-6-*	.180	.406
.0022	1313TC-3-.0022-6-*	.180	.406
.0027	1313TC-3-.0027-6-*	.200	.406
.0033	1313TC-3-.0033-6-*	.220	.406
.0039	1313TC-3-.0039-6-*	.240	.406
.0047	1313TC-3-.0047-6-*	.190	.531
.0056	1313TC-3-.0056-6-*	.200	.531
.0068	1313TC-3-.0068-6-*	.210	.531
.0082	1313TC-3-.0082-6-*	.220	.531
.01	1313TC-3-.01-6-*	.240	.531
.012	1313TC-3-.012-6-*	.260	.531
.015	1313TC-3-.015-6-*	.290	.531
.018	1313TC-3-.018-6-*	.250	.656
.022	1313TC-3-.022-6-*	.280	.656
.027	1313TC-3-.027-6-*	.310	.656
.033	1313TC-3-.033-6-*	.340	.656
.039	1313TC-3-.039-6-*	.320	.781
.047	1313TC-3-.047-6-*	.350	.781
.056	1313TC-3-.056-6-*	.380	.781
.068	1313TC-3-.068-6-*	.410	.781
.082	1313TC-3-.082-6-*	.400	.906
.1	1313TC-3-.1-6-*	.440	.906
.12	1313TC-3-.12-6-*	.480	.906
.15	1313TC-3-.15-6-*	.460	1.190
.18	1313TC-3-.18-6-*	.500	1.190
.22	1313TC-3-.22-6-*	.550	1.190
.27	1313TC-3-.27-6-*	.600	1.190
.33	1313TC-3-.33-6-*	.580	1.440
.39	1313TC-3-.39-6-*	.640	1.440
.47	1313TC-3-.47-6-*	.700	1.440
.56	1313TC-3-.56-6-*	.720	1.570
.68	1313TC-3-.68-6-*	.800	1.570
.82	1313TC-3-.82-6-*	.800	1.820
1.0	1313TC-3-1.0-6-*	.880	1.820
1.25	1313TC-3-1.25-6-*	.970	1.820
1.5	1313TC-3-1.5-6-*	.960	2.250
2.0	1313TC-3-2.0-6-*	1.100	2.250

* - Please insert appropriate tolerance code



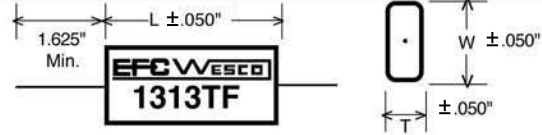
Please consult factory for special requirements, including non-standard values and sizes

1313TF Oval Wrap & Fill

Metallized Polyester 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	1313TF-3-.001-0-*	.125	.225	.406	
.0012	1313TF-3-.0012-0-*	.125	.225	.406	
.0015	1313TF-3-.0015-0-*	.125	.225	.406	
.0018	1313TF-3-.0018-0-*	.125	.225	.406	
.0022	1313TF-3-.0022-0-*	.125	.225	.406	
.0027	1313TF-3-.0027-0-*	.125	.225	.406	
.0033	1313TF-3-.0033-0-*	.125	.225	.406	
.0039	1313TF-3-.0039-0-*	.125	.225	.406	
.0047	1313TF-3-.0047-0-*	.125	.225	.406	
.0056	1313TF-3-.0056-0-*	.125	.225	.406	
.0068	1313TF-3-.0068-0-*	.125	.225	.406	
.0082	1313TF-3-.0082-0-*	.125	.225	.406	
.01	1313TF-3-.01-0-*	.125	.225	.406	
.012	1313TF-3-.012-0-*	.125	.225	.406	
.015	1313TF-3-.015-0-*	.125	.225	.406	
.018	1313TF-3-.018-0-*	.125	.225	.406	
.022	1313TF-3-.022-0-*	.125	.225	.406	
.027	1313TF-3-.027-0-*	.125	.225	.406	
.033	1313TF-3-.033-0-*	.125	.225	.406	
.039	1313TF-3-.039-0-*	.125	.225	.406	
.047	1313TF-3-.047-0-*	.125	.225	.406	
.056	1313TF-3-.056-0-*	.125	.225	.406	
.068	1313TF-3-.068-0-*	.125	.225	.406	
.082	1313TF-3-.082-0-*	.125	.225	.406	
.1	1313TF-3-.1-0-*	.125	.225	.406	
.12	1313TF-3-.12-0-*	.130	.230	.406	
.15	1313TF-3-.15-0-*	.140	.240	.406	
.18	1313TF-3-.18-0-*	.160	.260	.406	
.22	1313TF-3-.22-0-*	.130	.230	.468	
.27	1313TF-3-.27-0-*	.150	.250	.468	
.33	1313TF-3-.33-0-*	.170	.270	.468	
.39	1313TF-3-.39-0-*	.190	.290	.468	
.47	1313TF-3-.47-0-*	.170	.270	.531	
.56	1313TF-3-.56-0-*	.190	.290	.531	
.68	1313TF-3-.68-0-*	.210	.310	.531	
.82	1313TF-3-.82-0-*	.180	.280	.656	
1.0	1313TF-3-1.0-0-*	.210	.310	.656	
1.25	1313TF-3-1.25-0-*	.240	.340	.656	
1.5	1313TF-3-1.5-0-*	.220	.350	.781	
2.0	1313TF-3-2.0-0-*	.270	.400	.781	
3.0	1313TF-3-3.0-0-*	.320	.450	.781	
4.0	1313TF-3-4.0-0-*	.340	.470	.906	
5.0	1313TF-3-5.0-0-*	.390	.520	.906	
6.0	1313TF-3-6.0-0-*	.330	.500	1.190	
10.0	1313TF-3-10.0-0-*	.450	.620	1.190	
20.0	1313TF-3-20.0-0-*	.590	.760	1.440	

Cap.		100 VDC			
μF	Part #	T	W	L	
.001	1313TF-3-.001-1-*	.125	.225	.406	
.0012	1313TF-3-.0012-1-*	.125	.225	.406	
.0015	1313TF-3-.0015-1-*	.125	.225	.406	
.0018	1313TF-3-.0018-1-*	.125	.225	.406	
.0022	1313TF-3-.0022-1-*	.125	.225	.406	
.0027	1313TF-3-.0027-1-*	.125	.225	.406	
.0033	1313TF-3-.0033-1-*	.125	.225	.406	
.0039	1313TF-3-.0039-1-*	.125	.225	.406	
.0047	1313TF-3-.0047-1-*	.125	.225	.406	
.0056	1313TF-3-.0056-1-*	.125	.225	.406	
.0068	1313TF-3-.0068-1-*	.125	.225	.406	
.0082	1313TF-3-.0082-1-*	.125	.225	.406	
.01	1313TF-3-.01-1-*	.125	.225	.406	
.012	1313TF-3-.012-1-*	.125	.225	.406	
.015	1313TF-3-.015-1-*	.125	.225	.406	
.018	1313TF-3-.018-1-*	.125	.225	.406	
.022	1313TF-3-.022-1-*	.125	.225	.406	
.027	1313TF-3-.027-1-*	.125	.225	.406	
.033	1313TF-3-.033-1-*	.125	.225	.406	
.039	1313TF-3-.039-1-*	.125	.225	.406	
.047	1313TF-3-.047-1-*	.125	.225	.406	
.056	1313TF-3-.056-1-*	.140	.240	.406	
.068	1313TF-3-.068-1-*	.160	.260	.406	
.082	1313TF-3-.082-1-*	.130	.230	.468	
.1	1313TF-3-.1-1-*	.150	.250	.468	
.12	1313TF-3-.12-1-*	.160	.260	.468	
.15	1313TF-3-.15-1-*	.150	.250	.531	
.18	1313TF-3-.18-1-*	.170	.270	.531	
.22	1313TF-3-.22-1-*	.190	.290	.531	
.27	1313TF-3-.27-1-*	.220	.320	.531	
.33	1313TF-3-.33-1-*	.190	.290	.656	
.39	1313TF-3-.39-1-*	.210	.310	.656	
.47	1313TF-3-.47-1-*	.230	.330	.656	
.56	1313TF-3-.56-1-*	.250	.350	.656	
.68	1313TF-3-.68-1-*	.220	.350	.781	
.82	1313TF-3-.82-1-*	.250	.380	.781	
1.0	1313TF-3-1.0-1-*	.280	.410	.781	
1.25	1313TF-3-1.25-1-*	.320	.450	.781	
1.5	1313TF-3-1.5-1-*	.310	.440	.906	
2.0	1313TF-3-2.0-1-*	.360	.490	.906	
3.0	1313TF-3-3.0-1-*	.350	.520	1.190	
4.0	1313TF-3-4.0-1-*	.420	.590	1.190	
5.0	1313TF-3-5.0-1-*	.410	.580	1.440	
6.0	1313TF-3-6.0-1-*	.450	.620	1.440	
10.0	1313TF-3-10.0-1-*	.580	.750	1.570	
20.0	1313TF-3-20.0-1-*	.790	.990	1.690	

Cap.		160 VDC			
μF	Part #	T	W	L	
.001	1313TF-3-.001-1.6-*	.125	.225	.406	
.0012	1313TF-3-.0012-1.6-*	.125	.225	.406	
.0015	1313TF-3-.0015-1.6-*	.125	.225	.406	
.0018	1313TF-3-.0018-1.6-*	.125	.225	.406	
.0022	1313TF-3-.0022-1.6-*	.125	.225	.406	
.0027	1313TF-3-.0027-1.6-*	.125	.225	.406	
.0033	1313TF-3-.0033-1.6-*	.125	.225	.406	
.0039	1313TF-3-.0039-1.6-*	.125	.225	.406	
.0047	1313TF-3-.0047-1.6-*	.125	.225	.406	
.0056	1313TF-3-.0056-1.6-*	.125	.225	.406	
.0068	1313TF-3-.0068-1.6-*	.125	.225	.406	
.0082	1313TF-3-.0082-1.6-*	.125	.225	.406	
.01	1313TF-3-.01-1.6-*	.125	.225	.406	
.012	1313TF-3-.012-1.6-*	.125	.225	.406	
.015	1313TF-3-.015-1.6-*	.125	.225	.406	
.018	1313TF-3-.018-1.6-*	.125	.225	.406	
.022	1313TF-3-.022-1.6-*	.126	.225	.406	
.027	1313TF-3-.027-1.6-*	.140	.240	.406	
.033	1313TF-3-.033-1.6-*	.160	.260	.406	
.039	1313TF-3-.039-1.6-*	.170	.270	.406	
.047	1313TF-3-.047-1.6-*	.180	.280	.406	
.056	1313TF-3-.056-1.6-*	.190	.290	.406	
.068	1313TF-3-.068-1.6-*	.140	.240	.531	
.082	1313TF-3-.082-1.6-*	.160	.260	.531	
.1	1313TF-3-.1-1.6-*	.180	.280	.531	
.12	1313TF-3-.12-1.6-*	.200	.300	.531	
.15	1313TF-3-.15-1.6-*	.180	.280	.656	
.18	1313TF-3-.18-1.6-*	.200	.300	.656	
.22	1313TF-3-.22-1.6-*	.220	.320	.656	
.27	1313TF-3-.27-1.6-*	.250	.350	.656	
.33	1313TF-3-.33-1.6-*	.290	.390	.656	
.39	1313TF-3-.39-1.6-*	.240	.370	.781	
.47	1313TF-3-.47-1.6-*	.270	.400	.781	
.56	1313TF-3-.56-1.6-*	.300	.430	.781	
.68	1313TF-3-.68-1.6-*	.300	.430	.906	
.82	1313TF-3-.82-1.6-*	.330	.460	.906	
1.0	1313TF-3-1.0-1.6-*	.370	.500	.906	
1.25	1313TF-3-1.25-1.6-*	.320	.490	1.190	
1.5	1313TF-3-1.5-1.6-*	.360	.530	1.190	
2.0	1313TF-3-2.0-1.6-*	.430	.600	1.190	
3.0	1313TF-3-3.0-1.6-*	.470	.640	1.440	
4.0	1313TF-3-4.0-1.6-*	.550	.720	1.440	
5.0	1313TF-3-5.0-1.6-*	.590	.760	1.570	
6.0	1313TF-3-6.0-1.6-*	.660	.830	1.570	
10.0	1313TF-3-10.0-1.6-*	.810	1.010	1.690	
20.0	1313TF-3-20.0-1.6-*	1.070	1.270	1.940	

* - Please insert appropriate tolerance code



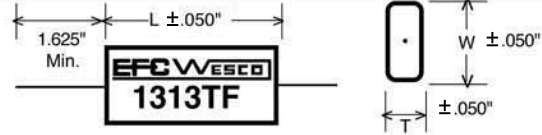
Please consult factory for special requirements, including non-standard values and sizes

1313TF Oval Wrap & Fill

Metalized Polyester Capacitors

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

Dimensions and Ratings



200 VDC		T	W	L
Cap. μ F	Part #			
.001	1313TF-3-.001-2*	.125	.225	.406
.0012	1313TF-3-.0012-2*	.125	.225	.406
.0015	1313TF-3-.0015-2*	.125	.225	.406
.0018	1313TF-3-.0018-2*	.125	.225	.406
.0022	1313TF-3-.0022-2*	.125	.225	.406
.0027	1313TF-3-.0027-2*	.125	.225	.406
.0033	1313TF-3-.0033-2*	.125	.225	.406
.0039	1313TF-3-.0039-2*	.125	.225	.406
.0047	1313TF-3-.0047-2*	.125	.225	.406
.0056	1313TF-3-.0056-2*	.125	.225	.406
.0068	1313TF-3-.0068-2*	.125	.225	.406
.0082	1313TF-3-.0082-2*	.125	.225	.406
.01	1313TF-3-.01-2*	.125	.225	.406
.012	1313TF-3-.012-2*	.125	.225	.406
.015	1313TF-3-.015-2*	.125	.225	.406
.018	1313TF-3-.018-2*	.125	.225	.406
.022	1313TF-3-.022-2*	.140	.240	.406
.027	1313TF-3-.027-2*	.160	.260	.406
.033	1313TF-3-.033-2*	.180	.280	.406
.039	1313TF-3-.039-2*	.130	.230	.531
.047	1313TF-3-.047-2*	.140	.240	.531
.056	1313TF-3-.056-2*	.150	.250	.531
.068	1313TF-3-.068-2*	.160	.260	.531
.082	1313TF-3-.082-2*	.190	.290	.531
.1	1313TF-3-.1-2*	.210	.310	.531
.12	1313TF-3-.12-2*	.230	.330	.531
.15	1313TF-3-.15-2*	.190	.290	.656
.18	1313TF-3-.18-2*	.230	.330	.656
.22	1313TF-3-.22-2*	.260	.360	.656
.27	1313TF-3-.27-2*	.220	.350	.781
.33	1313TF-3-.33-2*	.250	.380	.781
.39	1313TF-3-.39-2*	.280	.410	.781
.47	1313TF-3-.47-2*	.320	.450	.781
.56	1313TF-3-.56-2*	.320	.450	.906
.68	1313TF-3-.68-2*	.340	.470	.906
.82	1313TF-3-.82-2*	.370	.500	.906
1.0	1313TF-3-1.0-2*	.320	.490	1.190
1.25	1313TF-3-1.25-2*	.370	.540	1.190
1.5	1313TF-3-1.5-2*	.420	.590	1.190
2.0	1313TF-3-2.0-2*	.490	.660	1.190
3.0	1313TF-3-3.0-2*	.540	.710	1.440
4.0	1313TF-3-4.0-2*	.630	.800	1.440
5.0	1313TF-3-5.0-2*	.680	.850	1.570
6.0	1313TF-3-6.0-2*	.690	.890	1.690
10.0	1313TF-3-10.0-2*	.840	1.040	1.940

400 VDC		T	W	L
Cap. μ F	Part #			
.001	1313TF-3-.001-4*	.125	.225	.406
.0012	1313TF-3-.0012-4*	.125	.225	.406
.0015	1313TF-3-.0015-4*	.125	.225	.406
.0018	1313TF-3-.0018-4*	.125	.225	.406
.0022	1313TF-3-.0022-4*	.125	.225	.406
.0027	1313TF-3-.0027-4*	.125	.225	.406
.0033	1313TF-3-.0033-4*	.125	.225	.406
.0039	1313TF-3-.0039-4*	.125	.225	.406
.0047	1313TF-3-.0047-4*	.125	.225	.406
.0056	1313TF-3-.0056-4*	.125	.225	.406
.0068	1313TF-3-.0068-4*	.125	.225	.406
.0082	1313TF-3-.0082-4*	.140	.240	.406
.01	1313TF-3-.01-4*	.160	.260	.406
.012	1313TF-3-.012-4*	.180	.280	.406
.015	1313TF-3-.015-4*	.130	.230	.531
.018	1313TF-3-.018-4*	.140	.240	.531
.022	1313TF-3-.022-4*	.160	.260	.531
.027	1313TF-3-.027-4*	.180	.280	.531
.033	1313TF-3-.033-4*	.200	.300	.531
.039	1313TF-3-.039-4*	.220	.320	.531
.047	1313TF-3-.047-4*	.190	.290	.656
.056	1313TF-3-.056-4*	.210	.310	.656
.068	1313TF-3-.068-4*	.230	.330	.656
.082	1313TF-3-.082-4*	.260	.360	.656
.1	1313TF-3-.1-4*	.230	.380	.781
.12	1313TF-3-.12-4*	.260	.390	.781
.15	1313TF-3-.15-4*	.290	.420	.781
.18	1313TF-3-.18-4*	.330	.460	.781
.22	1313TF-3-.22-4*	.320	.450	.906
.27	1313TF-3-.27-4*	.360	.490	.906
.33	1313TF-3-.33-4*	.410	.540	.906
.39	1313TF-3-.39-4*	.340	.510	1.190
.47	1313TF-3-.47-4*	.380	.550	1.190
.56	1313TF-3-.56-4*	.420	.590	1.190
.68	1313TF-3-.68-4*	.470	.640	1.190
.82	1313TF-3-.82-4*	.530	.700	1.190
1.0	1313TF-3-1.0-4*	.510	.680	1.440
1.25	1313TF-3-1.25-4*	.580	.750	1.440
1.5	1313TF-3-1.5-4*	.650	.820	1.440
2.0	1313TF-3-2.0-4*	.660	.860	1.690
3.0	1313TF-3-3.0-4*	.830	1.030	1.690

600 VDC		T	W	L
Cap. μ F	Part #			
.001	1313TF-3-.001-6*	.125	.225	.406
.0012	1313TF-3-.0012-6*	.125	.225	.406
.0015	1313TF-3-.0015-6*	.125	.225	.406
.0018	1313TF-3-.0018-6*	.125	.225	.406
.0022	1313TF-3-.0022-6*	.125	.225	.406
.0027	1313TF-3-.0027-6*	.140	.240	.406
.0033	1313TF-3-.0033-6*	.160	.260	.406
.0039	1313TF-3-.0039-6*	.180	.280	.406
.0047	1313TF-3-.0047-6*	.130	.230	.531
.0056	1313TF-3-.0056-6*	.140	.240	.531
.0068	1313TF-3-.0068-6*	.150	.250	.531
.0082	1313TF-3-.0082-6*	.160	.260	.531
.01	1313TF-3-.01-6*	.180	.280	.531
.012	1313TF-3-.012-6*	.200	.300	.531
.015	1313TF-3-.015-6*	.230	.330	.531
.018	1313TF-3-.018-6*	.190	.290	.656
.022	1313TF-3-.022-6*	.220	.320	.656
.027	1313TF-3-.027-6*	.250	.350	.656
.033	1313TF-3-.033-6*	.280	.380	.656
.039	1313TF-3-.039-6*	.240	.370	.781
.047	1313TF-3-.047-6*	.270	.400	.781
.056	1313TF-3-.056-6*	.300	.430	.781
.068	1313TF-3-.068-6*	.330	.460	.781
.082	1313TF-3-.082-6*	.320	.450	.906
.1	1313TF-3-.1-6*	.360	.490	.906
.12	1313TF-3-.12-6*	.400	.530	.906
.15	1313TF-3-.15-6*	.350	.520	1.190
.18	1313TF-3-.18-6*	.390	.560	1.190
.22	1313TF-3-.22-6*	.440	.610	1.190
.27	1313TF-3-.27-6*	.490	.660	1.190
.33	1313TF-3-.33-6*	.470	.640	1.440
.39	1313TF-3-.39-6*	.530	.700	1.440
.47	1313TF-3-.47-6*	.590	.760	1.440
.56	1313TF-3-.56-6*	.610	.780	1.570
.68	1313TF-3-.68-6*	.690	.860	1.570
.82	1313TF-3-.82-6*	.670	.870	1.820
1.0	1313TF-3-1.0-6*	.750	.950	1.820
1.25	1313TF-3-1.25-6*	.840	1.040	1.820
1.5	1313TF-3-1.5-6*	.830	1.030	2.250
2.0	1313TF-3-2.0-6*	.990	1.190	2.250

For 1000 VDC rated parts,
please consult factory.

* - Please insert appropriate tolerance code

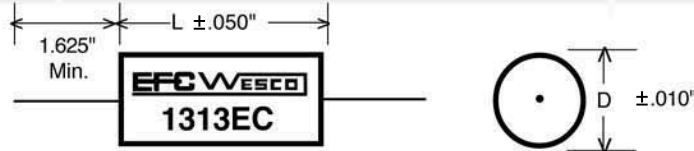


Please consult factory for special requirements, including non-standard values and sizes

1313EC
Tubular Plastic Case
(Axial Leads)

**Metallized
Polyester Capacitors**

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



Dimensions and Ratings

50 VDC				100 VDC				160 VDC			
Cap.	Part #	D	L	Cap.	Part #	D	L	Cap.	Part #	D	L
.001	1313EC-3-.001-0-*	.187	.375	.001	1313EC-3-.001-1-*	.187	.375	.001	1313EC-3-.001-1.6*	.187	.375
.0012	1313EC-3-.0012-0-*	.187	.375	.0012	1313EC-3-.0012-1-*	.187	.375	.0012	1313EC-3-.0012-1.6*	.187	.375
.0015	1313EC-3-.0015-0-*	.187	.375	.0015	1313EC-3-.0015-1-*	.187	.375	.0015	1313EC-3-.0015-1.6*	.187	.375
.0018	1313EC-3-.0018-0-*	.187	.375	.0018	1313EC-3-.0018-1-*	.187	.375	.0018	1313EC-3-.0018-1.6*	.187	.375
.0022	1313EC-3-.0022-0-*	.187	.375	.0022	1313EC-3-.0022-1-*	.187	.375	.0022	1313EC-3-.0022-1.6*	.187	.375
.0027	1313EC-3-.0027-0-*	.187	.375	.0027	1313EC-3-.0027-1-*	.187	.375	.0027	1313EC-3-.0027-1.6*	.187	.375
.0033	1313EC-3-.0033-0-*	.187	.375	.0033	1313EC-3-.0033-1-*	.187	.375	.0033	1313EC-3-.0033-1.6*	.187	.375
.0039	1313EC-3-.0039-0-*	.187	.375	.0039	1313EC-3-.0039-1-*	.187	.375	.0039	1313EC-3-.0039-1.6*	.187	.375
.0047	1313EC-3-.0047-0-*	.187	.375	.0047	1313EC-3-.0047-1-*	.187	.375	.0047	1313EC-3-.0047-1.6*	.187	.375
.0056	1313EC-3-.0056-0-*	.187	.375	.0056	1313EC-3-.0056-1-*	.187	.375	.0056	1313EC-3-.0056-1.6*	.187	.375
.0068	1313EC-3-.0068-0-*	.187	.375	.0068	1313EC-3-.0068-1-*	.187	.375	.0068	1313EC-3-.0068-1.6*	.187	.375
.0082	1313EC-3-.0082-0-*	.187	.375	.0082	1313EC-3-.0082-1-*	.187	.375	.0082	1313EC-3-.0082-1.6*	.187	.375
.01	1313EC-3-.01-0-*	.187	.375	.01	1313EC-3-.01-1-*	.187	.375	.01	1313EC-3-.01-1.6*	.187	.375
.012	1313EC-3-.012-0-*	.187	.375	.012	1313EC-3-.012-1-*	.187	.375	.012	1313EC-3-.012-1.6*	.187	.375
.015	1313EC-3-.015-0-*	.187	.375	.015	1313EC-3-.015-1-*	.187	.375	.015	1313EC-3-.015-1.6*	.187	.375
.018	1313EC-3-.018-0-*	.187	.375	.018	1313EC-3-.018-1-*	.187	.375	.018	1313EC-3-.018-1.6*	.187	.375
.022	1313EC-3-.022-0-*	.187	.375	.022	1313EC-3-.022-1-*	.187	.375	.022	1313EC-3-.022-1.6*	.187	.375
.027	1313EC-3-.027-0-*	.187	.375	.027	1313EC-3-.027-1-*	.187	.375	.027	1313EC-3-.027-1.6*	.225	.375
.033	1313EC-3-.033-0-*	.187	.375	.033	1313EC-3-.033-1-*	.187	.375	.033	1313EC-3-.033-1.6*	.225	.375
.039	1313EC-3-.039-0-*	.187	.375	.039	1313EC-3-.039-1-*	.187	.375	.039	1313EC-3-.039-1.6*	.250	.375
.047	1313EC-3-.047-0-*	.187	.375	.047	1313EC-3-.047-1-*	.225	.375	.047	1313EC-3-.047-1.6*	.250	.375
.056	1313EC-3-.056-0-*	.187	.375	.056	1313EC-3-.056-1-*	.225	.375	.056	1313EC-3-.056-1.6*	.225	.500
.068	1313EC-3-.068-0-*	.187	.375	.068	1313EC-3-.068-1-*	.225	.375	.068	1313EC-3-.068-1.6*	.225	.500
.082	1313EC-3-.082-0-*	.187	.375	.082	1313EC-3-.082-1-*	.250	.375	.082	1313EC-3-.082-1.6*	.225	.500
.1	1313EC-3-.1-0-*	.187	.375	.1	1313EC-3-.1-1-*	.187	.500	.1	1313EC-3-.1-1.6*	.250	.500
.12	1313EC-3-.12-0-*	.187	.375	.12	1313EC-3-.12-1-*	.225	.500	.12	1313EC-3-.12-1.6*	.225	.625
.15	1313EC-3-.15-0-*	.225	.375	.15	1313EC-3-.15-1-*	.225	.500	.15	1313EC-3-.15-1.6*	.250	.625
.18	1313EC-3-.18-0-*	.250	.375	.18	1313EC-3-.18-1-*	.250	.500	.18	1313EC-3-.18-1.6*	.250	.625
.22	1313EC-3-.22-0-*	.187	.500	.22	1313EC-3-.22-1-*	.250	.500	.22	1313EC-3-.22-1.6*	.312	.625
.27	1313EC-3-.27-0-*	.225	.500	.27	1313EC-3-.27-1-*	.225	.625	.27	1313EC-3-.27-1.6*	.312	.625
.33	1313EC-3-.33-0-*	.225	.500	.33	1313EC-3-.33-1-*	.250	.625	.33	1313EC-3-.33-1.6*	.312	.750
.39	1313EC-3-.39-0-*	.250	.500	.39	1313EC-3-.39-1-*	.312	.625	.39	1313EC-3-.39-1.6*	.375	.750
.47	1313EC-3-.47-0-*	.225	.625	.47	1313EC-3-.47-1-*	.312	.625	.47	1313EC-3-.47-1.6*	.375	.750
.56	1313EC-3-.56-0-*	.250	.625	.56	1313EC-3-.56-1-*	.312	.750	.56	1313EC-3-.56-1.6*	.375	.750
.68	1313EC-3-.68-0-*	.250	.625	.68	1313EC-3-.68-1-*	.312	.750	.68	1313EC-3-.68-1.6*	.375	.875
.82	1313EC-3-.82-0-*	.312	.625	.82	1313EC-3-.82-1-*	.375	.750	.82	1313EC-3-.82-1.6*	.437	.875
1.0	1313EC-3-1.0-0-*	.312	.625	1.0	1313EC-3-1.0-1-*	.375	.750	1.0	1313EC-3-1.0-1.6*	.500	.875
1.25	1313EC-3-1.25-0-*	.312	.750	1.25	1313EC-3-1.25-1-*	.375	.875	1.25	1313EC-3-1.25-1.6*	.500	.875
1.5	1313EC-3-1.5-0-*	.312	.750	1.5	1313EC-3-1.5-1-*	.437	.875	1.5	1313EC-3-1.5-1.6*	.500	1.190

* - Please insert appropriate tolerance code

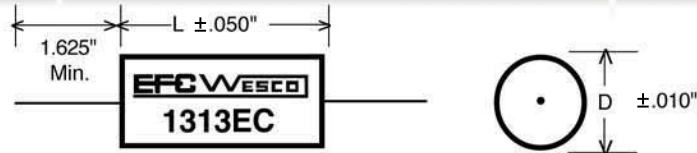


Please consult factory for special requirements, including non-standard values and sizes

1313EC
Tubular Plastic Case
(Axial Leads)

Metallized Polyester Capacitors

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



Dimensions and Ratings

200 VDC				400 VDC			
Cap.	Part #	D	L	Cap.	Part #	D	L
.001	1313EC-3-.001-2-*	.187	.375	.001	1313EC-3-.001-4-*	.187	.375
.0012	1313EC-3-.0012-2-*	.187	.375	.0012	1313EC-3-.0012-4-*	.187	.375
.0015	1313EC-3-.0015-2-*	.187	.375	.0015	1313EC-3-.0015-4-*	.187	.375
.0018	1313EC-3-.0018-2-*	.187	.375	.0018	1313EC-3-.0018-4-*	.187	.375
.0022	1313EC-3-.0022-2-*	.187	.375	.0022	1313EC-3-.0022-4-*	.187	.375
.0027	1313EC-3-.0027-2-*	.187	.375	.0027	1313EC-3-.0027-4-*	.187	.375
.0033	1313EC-3-.0033-2-*	.187	.375	.0033	1313EC-3-.0033-4-*	.187	.375
.0039	1313EC-3-.0039-2-*	.187	.375	.0039	1313EC-3-.0039-4-*	.187	.375
.0047	1313EC-3-.0047-2-*	.187	.375	.0047	1313EC-3-.0047-4-*	.187	.375
.0056	1313EC-3-.0056-2-*	.187	.375	.0056	1313EC-3-.0056-4-*	.187	.375
.0068	1313EC-3-.0068-2-*	.187	.375	.0068	1313EC-3-.0068-4-*	.225	.375
.0082	1313EC-3-.0082-2-*	.187	.375	.0082	1313EC-3-.0082-4-*	.225	.375
.01	1313EC-3-.01-2-*	.187	.375	.01	1313EC-3-.01-4-*	.225	.375
.012	1313EC-3-.012-2-*	.187	.375	.012	1313EC-3-.012-4-*	.250	.375
.015	1313EC-3-.015-2-*	.187	.375	.015	1313EC-3-.015-4-*	.225	.500
.018	1313EC-3-.018-2-*	.225	.375	.018	1313EC-3-.018-4-*	.225	.500
.022	1313EC-3-.022-2-*	.225	.375	.022	1313EC-3-.022-4-*	.225	.500
.027	1313EC-3-.027-2-*	.225	.375	.027	1313EC-3-.027-4-*	.250	.500
.033	1313EC-3-.033-2-*	.250	.375	.033	1313EC-3-.033-4-*	.225	.625
.039	1313EC-3-.039-2-*	.187	.500	.039	1313EC-3-.039-4-*	.250	.625
.047	1313EC-3-.047-2-*	.225	.500	.047	1313EC-3-.047-4-*	.250	.625
.056	1313EC-3-.056-2-*	.225	.500	.056	1313EC-3-.056-4-*	.312	.625
.068	1313EC-3-.068-2-*	.250	.500	.068	1313EC-3-.068-4-*	.312	.625
.082	1313EC-3-.082-2-*	.250	.500	.082	1313EC-3-.082-4-*	.312	.750
.1	1313EC-3-.1-2-*	.225	.625	.1	1313EC-3-.1-4-*	.312	.750
.12	1313EC-3-.12-2-*	.250	.625	.12	1313EC-3-.12-4-*	.375	.750
.15	1313EC-3-.15-2-*	.312	.625	.15	1313EC-3-.15-4-*	.375	.750
.18	1313EC-3-.18-2-*	.312	.625	.18	1313EC-3-.18-4-*	.375	.875
.22	1313EC-3-.22-2-*	.312	.750	.22	1313EC-3-.22-4-*	.437	.875
.27	1313EC-3-.27-2-*	.312	.750	.27	1313EC-3-.27-4-*	.500	.875
.33	1313EC-3-.33-2-*	.375	.750	.33	1313EC-3-.33-4-*	.500	.875
.39	1313EC-3-.39-2-*	.375	.750	.39	1313EC-3-.39-4-*	.500	1.190
.47	1313EC-3-.47-2-*	.375	.875	.47	1313EC-3-.47-4-*	.500	1.190
.56	1313EC-3-.56-2-*	.437	.875				
.68	1313EC-3-.68-2-*	.437	.875				
.82	1313EC-3-.82-2-*	.500	.875				
1.0	1313EC-3-1.0-2-*	.437	1.190				
1.25	1313EC-3-1.25-2-*	.500	1.190				

* - Please insert appropriate tolerance code



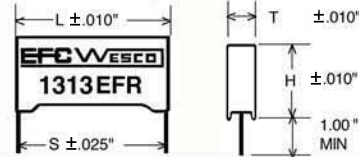
Please consult factory for special requirements, including non-standard values and sizes

1313EFR
Rectangular Plastic Case
(Radial Leads)

**Metallized
Polyester Capacitors**

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

Dimensions and Ratings



63 VDC / 40 VAC						160 VDC / 100 VAC					
Cap.	Part #	T	L	H	S	Cap.	Part #	T	L	H	S
μF		in. (mm)	in. (mm)	in. (mm)	in. (mm)	μF		in. (mm)	in. (mm)	in. (mm)	in. (mm)
.001	1313EFR-B-.001-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.001	1313EFR-B-.001-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0012	1313EFR-B-.0012-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.0012	1313EFR-B-.0012-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0015	1313EFR-B-.0015-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.0015	1313EFR-B-.0015-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0018	1313EFR-B-.0018-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.0018	1313EFR-B-.0018-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0022	1313EFR-B-.0022-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.0022	1313EFR-B-.0022-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0027	1313EFR-B-.0027-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.0027	1313EFR-B-.0027-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0033	1313EFR-B-.0033-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.0033	1313EFR-B-.0033-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0039	1313EFR-B-.0039-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.0039	1313EFR-B-.0039-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0047	1313EFR-B-.0047-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.0047	1313EFR-B-.0047-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0056	1313EFR-B-.0056-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.0056	1313EFR-B-.0056-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0068	1313EFR-B-.0068-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.0068	1313EFR-B-.0068-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0082	1313EFR-B-.0082-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.0082	1313EFR-B-.0082-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.01	1313EFR-B-.01-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.01	1313EFR-B-.01-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.012	1313EFR-B-.012-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.012	1313EFR-B-.012-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.015	1313EFR-B-.015-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.015	1313EFR-B-.015-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.018	1313EFR-B-.018-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.018	1313EFR-B-.018-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.022	1313EFR-B-.022-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.022	1313EFR-B-.022-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.027	1313EFR-B-.027-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.027	1313EFR-B-.027-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.033	1313EFR-B-.033-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.033	1313EFR-B-.033-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.039	1313EFR-B-.039-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.039	1313EFR-B-.039-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.047	1313EFR-B-.047-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.047	1313EFR-B-.047-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.056	1313EFR-B-.056-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.056	1313EFR-B-.056-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.068	1313EFR-B-.068-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.068	1313EFR-B-.068-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.082	1313EFR-B-.082-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.082	1313EFR-B-.082-1.6*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.1	1313EFR-B-.1-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.1	1313EFR-C-.1-1.6*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.12	1313EFR-B-.12-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.12	1313EFR-C-.12-1.6*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.15	1313EFR-B-.15-63*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)	.15	1313EFR-C-.15-1.6*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.18	1313EFR-C-.18-63*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)	.18	1313EFR-D-.18-1.6*	.197 (5.0)	.512 (13.0)	.433 (11.0)	.394 (10.0)
.22	1313EFR-C-.22-63*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)	.22	1313EFR-D-.22-1.6*	.197 (5.0)	.512 (13.0)	.433 (11.0)	.394 (10.0)
.27	1313EFR-C-.27-63*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)	.27	1313EFR-D-.27-1.6*	.197 (5.0)	.512 (13.0)	.433 (11.0)	.394 (10.0)
.33	1313EFR-C-.33-63*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)	.33	1313EFR-E-.33-1.6*	.236 (6.0)	.512 (13.0)	.472 (12.0)	.394 (10.0)
.39	1313EFR-D-.39-63*	.197 (5.0)	.512 (13.0)	.433 (11.0)	.394 (10.0)	.39	1313EFR-E-.39-1.6*	.236 (6.0)	.512 (13.0)	.472 (12.0)	.394 (10.0)
.47	1313EFR-D-.47-63*	.197 (5.0)	.512 (13.0)	.433 (11.0)	.394 (10.0)	.47	1313EFR-F-.47-1.6*	.197 (5.0)	.709 (18.0)	.433 (11.0)	.591 (15.0)
.56	1313EFR-E-.56-63*	.236 (6.0)	.512 (13.0)	.472 (12.0)	.394 (10.0)	.56	1313EFR-G-.56-1.6*	.236 (6.0)	.709 (18.0)	.472 (12.0)	.591 (15.0)
.68	1313EFR-E-.68-63*	.236 (6.0)	.512 (13.0)	.472 (12.0)	.394 (10.0)	.68	1313EFR-G-.68-1.6*	.236 (6.0)	.709 (18.0)	.472 (12.0)	.591 (15.0)
.82	1313EFR-F-.82-63*	.197 (5.0)	.709 (18.0)	.433 (11.0)	.591 (15.0)	.82	1313EFR-H-.82-1.6*	.295 (7.5)	.709 (18.0)	.531 (13.5)	.591 (15.0)
1.0	1313EFR-F-1.0-63*	.197 (5.0)	.709 (18.0)	.433 (11.0)	.591 (15.0)	1.0	1313EFR-H-1.0-1.6*	.295 (7.5)	.709 (18.0)	.531 (13.5)	.591 (15.0)
1.2	1313EFR-G-1.2-63*	.236 (6.0)	.709 (18.0)	.472 (12.0)	.591 (15.0)	1.2	1313EFR-H-1.2-1.6*	.295 (7.5)	.709 (18.0)	.531 (13.5)	.591 (15.0)
1.5	1313EFR-G-1.5-63*	.236 (6.0)	.709 (18.0)	.472 (12.0)	.591 (15.0)	1.5	1313EFR-K-1.5-1.6*	.276 (7.0)	1.04 (26.5)	.630 (16.0)	.787 (20.0)
2.2	1313EFR-H-2.2-63*	.295 (7.5)	.709 (18.0)	.531 (13.5)	.591 (15.0)	1.5	1313EFR-M-1.5-1.6*	.276 (7.0)	1.04 (26.5)	.630 (16.0)	.886 (22.5)
3.3	1313EFR-K-3.3-63*	.276 (7.0)	1.04 (26.5)	.630 (16.0)	.787 (20.0)	2.2	1313EFR-N-2.2-1.6*	.335 (8.5)	1.04 (26.5)	.642 (16.3)	.886 (22.5)
3.3	1313EFR-M-3.3-63*	.276 (7.0)	1.04 (26.5)	.630 (16.0)	.886 (22.5)	3.3	1313EFR-O-3.3-1.6*	.394 (10.0)	1.04 (26.5)	.748 (19.0)	.886 (22.5)
4.7	1313EFR-N-4.7-63*	.335 (8.5)	1.04 (26.5)	.642 (16.3)	.886 (22.5)	4.7	1313EFR-P-4.7-1.6*	.433 (11.0)	1.26 (32.0)	.787 (20.0)	1.08 (27.5)
5.6	1313EFR-O-5.6-63*	.394 (10.0)	1.04 (26.5)	.748 (19.0)	.886 (22.5)						

* - Please insert appropriate tolerance code



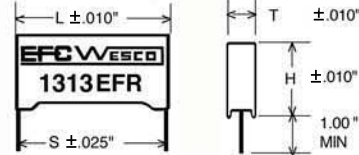
Please consult factory for special requirements, including non-standard values and sizes

1313EFR
Rectangular Plastic Case
(Radial Leads)

**Metallized
Polyester Capacitors**

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

Dimensions and Ratings



Cap.	250 VDC / 160 VAC				
µF	Part #	T in. (mm)	L in. (mm)	H in. (mm)	S in. (mm)
.001	1313EFR-B-.001-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0012	1313EFR-B-.0012-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0015	1313EFR-B-.0015-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0018	1313EFR-B-.0018-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0022	1313EFR-B-.0022-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0027	1313EFR-B-.0027-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0033	1313EFR-B-.0033-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0039	1313EFR-B-.0039-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0047	1313EFR-B-.0047-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0056	1313EFR-B-.0056-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0068	1313EFR-B-.0068-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0082	1313EFR-B-.0082-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.01	1313EFR-B-.01-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.012	1313EFR-B-.012-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.015	1313EFR-B-.015-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.018	1313EFR-B-.018-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.022	1313EFR-B-.022-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.027	1313EFR-B-.027-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.033	1313EFR-B-.033-2.5-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.039	1313EFR-C-.039-2.5-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.047	1313EFR-C-.047-2.5-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.056	1313EFR-C-.056-2.5-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.068	1313EFR-C-.068-2.5-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.082	1313EFR-D-.082-2.5-*	.197 (5.0)	.512 (13.0)	.433 (11.0)	.394 (10.0)
.1	1313EFR-D-.1-2.5-*	.197 (5.0)	.512 (13.0)	.433 (11.0)	.394 (10.0)
.12	1313EFR-D-.12-2.5-*	.197 (5.0)	.512 (13.0)	.433 (11.0)	.394 (10.0)
.15	1313EFR-E-.15-2.5-*	.236 (6.0)	.512 (13.0)	.472 (12.0)	.394 (10.0)
.18	1313EFR-E-.18-2.5-*	.236 (6.0)	.512 (13.0)	.472 (12.0)	.394 (10.0)
.22	1313EFR-F-.22-2.5-*	.197 (5.0)	.709 (18.0)	.433 (11.0)	.591 (15.0)
.27	1313EFR-F-.27-2.5-*	.197 (5.0)	.709 (18.0)	.433 (11.0)	.591 (15.0)
.33	1313EFR-G-.33-2.5-*	.236 (6.0)	.709 (18.0)	.472 (12.0)	.591 (15.0)
.39	1313EFR-G-.39-2.5-*	.236 (6.0)	.709 (18.0)	.472 (12.0)	.591 (15.0)
.47	1313EFR-H-.47-2.5-*	.295 (7.5)	.709 (18.0)	.531 (13.5)	.591 (15.0)
.56	1313EFR-H-.56-2.5-*	.295 (7.5)	.709 (18.0)	.531 (13.5)	.591 (15.0)
.68	1313EFR-J-.68-2.5-*	.236 (6.0)	1.04 (26.5)	.591 (15.0)	.787 (20.0)
.68	1313EFR-L-.68-2.5-*	.236 (6.0)	1.04 (26.5)	.591 (15.0)	.886 (22.5)
.82	1313EFR-K-.82-2.5-*	.276 (7.0)	1.04 (26.5)	.630 (16.0)	.787 (20.0)
.82	1313EFR-M-.82-2.5-*	.276 (7.0)	1.04 (26.5)	.630 (16.0)	.886 (22.5)
1.0	1313EFR-N-1.0-2.5-*	.335 (8.5)	1.04 (26.5)	.642 (16.3)	.886 (22.5)
1.2	1313EFR-N-1.2-2.5-*	.335 (8.5)	1.04 (26.5)	.642 (16.3)	.886 (22.5)
1.5	1313EFR-P-1.5-2.5-*	.433 (11.0)	1.26 (32.0)	.787 (20.0)	1.08 (27.5)
2.2	1313EFR-P-2.2-2.5-*	.433 (11.0)	1.26 (32.0)	.787 (20.0)	1.08 (27.5)
3.3	1313EFR-Q-3.3-2.5-*	.512 (13.0)	1.26 (32.0)	.866 (22.0)	1.08 (27.5)

Cap.	400 VDC / 220 VAC				
µF	Part #	T in. (mm)	L in. (mm)	H in. (mm)	S in. (mm)
.001	1313EFR-B-.001-4-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0012	1313EFR-B-.0012-4-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0015	1313EFR-B-.0015-4-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0018	1313EFR-B-.0018-4-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0022	1313EFR-B-.0022-4-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0027	1313EFR-B-.0027-4-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0033	1313EFR-B-.0033-4-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0039	1313EFR-B-.0039-4-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0047	1313EFR-B-.0047-4-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0056	1313EFR-B-.0056-4-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0068	1313EFR-B-.0068-4-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.0082	1313EFR-B-.0082-4-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.01	1313EFR-B-.01-4-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.012	1313EFR-B-.012-4-*	.157 (4.0)	.413 (10.5)	.354 (9.0)	.295 (7.5)
.015	1313EFR-C-.015-4-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.018	1313EFR-C-.018-4-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.022	1313EFR-C-.022-4-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.027	1313EFR-C-.027-4-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.033	1313EFR-D-.033-4-*	.197 (5.0)	.512 (13.0)	.433 (11.0)	.394 (10.0)
.039	1313EFR-D-.039-4-*	.197 (5.0)	.512 (13.0)	.433 (11.0)	.394 (10.0)
.047	1313EFR-D-.047-4-*	.197 (5.0)	.512 (13.0)	.433 (11.0)	.394 (10.0)
.056	1313EFR-E-.056-4-*	.236 (6.0)	.512 (13.0)	.472 (12.0)	.394 (10.0)
.068	1313EFR-E-.068-4-*	.236 (6.0)	.512 (13.0)	.472 (12.0)	.394 (10.0)
.082	1313EFR-F-.082-4-*	.197 (5.0)	.709 (18.0)	.433 (11.0)	.591 (15.0)
.1	1313EFR-F-.1-4-*	.197 (5.0)	.709 (18.0)	.433 (11.0)	.591 (15.0)
.12	1313EFR-G-.12-4-*	.236 (6.0)	.709 (18.0)	.472 (12.0)	.591 (15.0)
.15	1313EFR-H-.15-4-*	.295 (7.5)	.709 (18.0)	.531 (13.5)	.591 (15.0)
.18	1313EFR-H-.18-4-*	.295 (7.5)	.709 (18.0)	.531 (13.5)	.591 (15.0)
.22	1313EFR-J-.22-4-*	.236 (6.0)	1.04 (26.5)	.591 (15.0)	.787 (20.0)
.22	1313EFR-L-.22-4-*	.236 (6.0)	1.04 (26.5)	.591 (15.0)	.886 (22.5)
.27	1313EFR-K-.27-4-*	.236 (6.0)	1.04 (26.5)	.591 (15.0)	.787 (20.0)
.27	1313EFR-M-.27-4-*	.236 (6.0)	1.04 (26.5)	.591 (15.0)	.886 (22.5)
.33	1313EFR-K-.33-4-*	.276 (7.0)	1.04 (26.5)	.630 (16.0)	.787 (20.0)
.33	1313EFR-M-.33-4-*	.276 (7.0)	1.04 (26.5)	.630 (16.0)	.886 (22.5)
.39	1313EFR-K-.39-4-*	.276 (7.0)	1.04 (26.5)	.630 (16.0)	.787 (20.0)
.39	1313EFR-M-.39-4-*	.276 (7.0)	1.04 (26.5)	.630 (16.0)	.886 (22.5)
.47	1313EFR-N-.47-4-*	.335 (8.5)	1.04 (26.5)	.642 (16.3)	.886 (22.5)
.56	1313EFR-O-.56-4-*	.394 (10.0)	1.04 (26.5)	.748 (19.0)	.886 (22.5)
.68	1313EFR-O-.68-4-*	.394 (10.0)	1.04 (26.5)	.748 (19.0)	.886 (22.5)
.82	1313EFR-P-.82-4-*	.433 (11.0)	1.26 (32.0)	.787 (20.0)	1.08 (27.5)
1.0	1313EFR-P-1.0-4-*	.433 (11.0)	1.26 (32.0)	.787 (20.0)	1.08 (27.5)
1.2	1313EFR-Q-1.2-4-*	.512 (13.0)	1.26 (32.0)	.866 (22.0)	1.08 (27.5)

* - Please insert appropriate tolerance code



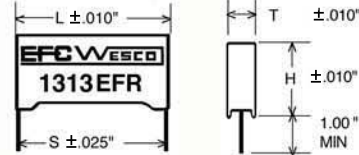
Please consult factory for special requirements, including non-standard values and sizes

1313EFR
Rectangular Plastic Case
(Radial Leads)

**Metallized
Polyester Capacitors**

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

Dimensions and Ratings



Cap.	630 VDC / 250 VAC				
μ F	Part #	T in. (mm)	L in. (mm)	H in. (mm)	S in. (mm)
.001	1313EFR-C-.001-6.3-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.0012	1313EFR-C-.0012-6.3-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.0015	1313EFR-C-.0015-6.3-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.0018	1313EFR-C-.0018-6.3-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.0022	1313EFR-C-.0022-6.3-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.0027	1313EFR-C-.0027-6.3-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.0033	1313EFR-C-.0033-6.3-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.0039	1313EFR-C-.0039-6.3-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.0047	1313EFR-C-.0047-6.3-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.0056	1313EFR-C-.0056-6.3-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.0068	1313EFR-C-.0068-6.3-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.0082	1313EFR-C-.0082-6.3-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.01	1313EFR-C-.01-6.3-*	.157 (4.0)	.512 (13.0)	.354 (9.0)	.394 (10.0)
.012	1313EFR-D-.012-6.3-*	.197 (5.0)	.512 (13.0)	.433 (11.0)	.394 (10.0)
.015	1313EFR-D-.015-6.3-*	.197 (5.0)	.512 (13.0)	.433 (11.0)	.394 (10.0)
.018	1313EFR-E-.018-6.3-*	.236 (6.0)	.512 (13.0)	.472 (12.0)	.394 (10.0)
.022	1313EFR-E-.022-6.3-*	.236 (6.0)	.512 (13.0)	.472 (12.0)	.394 (10.0)
.027	1313EFR-F-.027-6.3-*	.197 (5.0)	.709 (18.0)	.433 (11.0)	.591 (15.0)
.033	1313EFR-F-.033-6.3-*	.197 (5.0)	.709 (18.0)	.433 (11.0)	.591 (15.0)
.039	1313EFR-G-.039-6.3-*	.236 (6.0)	.709 (18.0)	.472 (12.0)	.591 (15.0)
.047	1313EFR-G-.047-6.3-*	.236 (6.0)	.709 (18.0)	.472 (12.0)	.591 (15.0)
.056	1313EFR-H-.056-6.3-*	.295 (7.5)	.709 (18.0)	.531 (13.5)	.591 (15.0)
.068	1313EFR-H-.068-6.3-*	.295 (7.5)	.709 (18.0)	.531 (13.5)	.591 (15.0)
.082	1313EFR-H-.082-6.3-*	.295 (7.5)	.709 (18.0)	.531 (13.5)	.591 (15.0)
.1	1313EFR-J-.1-6.3-*	.236 (6.0)	1.04 (26.5)	.591 (15.0)	.787 (20.0)
.1	1313EFR-L-.1-6.3-*	.236 (6.0)	1.04 (26.5)	.591 (15.0)	.886 (22.5)
.12	1313EFR-J-.12-6.3-*	.236 (6.0)	1.04 (26.5)	.591 (15.0)	.787 (20.0)
.12	1313EFR-L-.12-6.3-*	.236 (6.0)	1.04 (26.5)	.591 (15.0)	.886 (22.5)
.15	1313EFR-J-.15-6.3-*	.236 (6.0)	1.04 (26.5)	.591 (15.0)	.787 (20.0)
.15	1313EFR-L-.15-6.3-*	.236 (6.0)	1.04 (26.5)	.591 (15.0)	.886 (22.5)
.18	1313EFR-K-.18-6.3-*	.276 (7.0)	1.04 (26.5)	.630 (16.0)	.787 (20.0)
.18	1313EFR-M-.18-6.3-*	.276 (7.0)	1.04 (26.5)	.630 (16.0)	.886 (22.5)
.22	1313EFR-N-.22-6.3-*	.335 (8.5)	1.04 (26.5)	.642 (16.3)	.886 (22.5)
.27	1313EFR-O-.27-6.3-*	.394 (10.0)	1.04 (26.5)	.748 (19.0)	.886 (22.5)
.33	1313EFR-P-.33-6.3-*	.433 (11.0)	1.26 (32.0)	.787 (20.0)	1.08 (27.5)
.39	1313EFR-P-.39-6.3-*	.433 (11.0)	1.26 (32.0)	.787 (20.0)	1.08 (27.5)
.47	1313EFR-Q-.47-6.3-*	.512 (13.0)	1.26 (32.0)	.866 (22.0)	1.08 (27.5)
.56	1313EFR-Q-.56-6.3-*	.512 (13.0)	1.26 (32.0)	.866 (22.0)	1.08 (27.5)

* - Please insert appropriate tolerance code



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

1313DFR

Epoxy Dipped (Radial Leads)

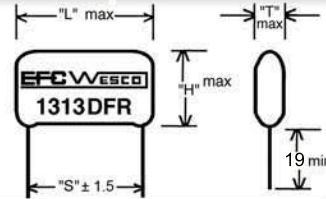
Standard Metallized Polyester Capacitors

Lead Specs - Tinned Copperweld

L	S	LEAD DIA
10.5	7.5	0.6
12.5	10.0	0.6
18.0	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

All dimensions in mm



100 VDC					160 VDC				
Cap.	Part #	T	H	L	Cap.	Part #	T	H	L
.001	1313DFR-3-.001-1-*	4.0	8.0	10.0	.001	1313DFR-3-.001-1.6-*	4.0	8.0	10.0
.0012	1313DFR-3-.0012-1-*	4.0	8.0	10.0	.0012	1313DFR-3-.0012-1.6-*	4.0	8.0	10.0
.0015	1313DFR-3-.0015-1-*	4.0	8.0	10.0	.0015	1313DFR-3-.0015-1.6-*	4.0	8.0	10.0
.0022	1313DFR-3-.0022-1-*	4.0	8.0	10.0	.0022	1313DFR-3-.0022-1.6-*	4.0	8.0	10.0
.0027	1313DFR-3-.0027-1-*	4.0	8.0	10.0	.0027	1313DFR-3-.0027-1.6-*	4.0	8.0	10.0
.0039	1313DFR-3-.0039-1-*	4.0	8.0	10.0	.0039	1313DFR-3-.0039-1.6-*	4.0	8.0	10.0
.0047	1313DFR-3-.0047-1-*	4.0	8.0	10.0	.0047	1313DFR-3-.0047-1.6-*	4.0	8.0	10.0
.0056	1313DFR-3-.0056-1-*	4.0	8.0	10.0	.0056	1313DFR-3-.0056-1.6-*	4.0	8.0	10.0
.0068	1313DFR-3-.0068-1-*	4.0	8.0	10.0	.0068	1313DFR-3-.0068-1.6-*	4.0	8.0	10.0
.0082	1313DFR-3-.0082-1-*	4.0	8.0	10.0	.0082	1313DFR-3-.0082-1.6-*	4.0	8.0	10.0
.01	1313DFR-3-.01-1-*	4.0	8.0	10.0	.01	1313DFR-3-.01-1.6-*	4.0	8.0	10.0
.012	1313DFR-3-.012-1-*	4.0	8.0	10.0	.012	1313DFR-3-.012-1.6-*	4.0	8.0	10.0
.015	1313DFR-3-.015-1-*	4.0	8.0	10.0	.015	1313DFR-3-.015-1.6-*	4.0	8.0	10.0
.018	1313DFR-3-.018-1-*	4.0	8.0	10.0	.018	1313DFR-3-.018-1.6-*	4.0	8.0	10.0
.022	1313DFR-3-.022-1-*	4.0	8.0	10.0	.022	1313DFR-3-.022-1.6-*	4.0	8.0	10.0
.027	1313DFR-3-.027-1-*	4.0	8.0	10.0	.027	1313DFR-3-.027-1.6-*	4.0	8.0	10.0
.033	1313DFR-3-.033-1-*	4.0	8.0	10.0	.033	1313DFR-3-.033-1.6-*	4.0	8.0	10.0
.039	1313DFR-3-.039-1-*	4.0	8.0	10.0	.039	1313DFR-3-.039-1.6-*	4.0	8.0	10.0
.047	1313DFR-3-.047-1-*	4.0	8.0	10.0	.047	1313DFR-3-.047-1.6-*	4.0	8.0	10.0
.056	1313DFR-3-.056-1-*	4.0	8.0	10.0	.056	1313DFR-3-.056-1.6-*	4.0	8.0	10.0
.068	1313DFR-3-.068-1-*	4.0	8.0	10.0	.068	1313DFR-3-.068-1.6-*	4.0	8.0	10.0
.082	1313DFR-3-.082-1-*	4.0	8.0	10.0	.082	1313DFR-3-.082-1.6-*	4.0	8.5	10.0
.1	1313DFR-3-.1-1-*	4.0	8.0	10.0	.1	1313DFR-3-.1-1.6-*	4.0	9.0	10.0
.12	1313DFR-3-.12-1-*	4.0	8.0	10.0	.12	1313DFR-3-.12-1.6-*	5.5	11.0	12.5
.15	1313DFR-3-.15-1-*	4.0	8.0	10.0	.15	1313DFR-3-.15-1.6-*	4.5	9.0	12.5
.18	1313DFR-3-.18-1-*	4.0	8.5	10.0	.18	1313DFR-3-.18-1.6-*	4.5	9.5	12.5
.22	1313DFR-3-.22-1-*	4.0	8.5	10.0	.22	1313DFR-3-.22-1.6-*	5.0	10.0	12.5
.27	1313DFR-3-.27-1-*	4.0	8.5	10.0	.27	1313DFR-3-.27-1.6-*	5.5	11.0	12.5
.33	1313DFR-3-.33-1-*	4.0	9.0	10.0	.33	1313DFR-3-.33-1.6-*	6.0	12.0	12.5
.39	1313DFR-3-.39-1-*	4.0	9.0	12.5	.39	1313DFR-3-.39-1.6-*	5.0	10.0	18.0
.47	1313DFR-3-.47-1-*	4.5	9.5	12.5	.47	1313DFR-3-.47-1.6-*	5.5	11.0	0.2
.56	1313DFR-3-.56-1-*	5.0	10.0	12.5	.56	1313DFR-3-.56-1.6-*	6.0	12.0	18.0
.68	1313DFR-3-.68-1-*	5.5	10.5	12.5	.68	1313DFR-3-.68-1.6-*	7.0	13.0	18.0
.82	1313DFR-3-.82-1-*	6.0	11.5	12.5	.82	1313DFR-3-.82-1.6-*	7.5	13.5	18.0
1.0	1313DFR-3-1.0-1-*	6.5	12.0	12.5	1.0	1313DFR-3-1.0-1.6-*	8.0	14.0	18.0
1.2	1313DFR-3-1.2-1-*	6.0	12.0	18.0	1.2	1313DFR-3-1.2-1.6-*	7.5	13.5	26.0
1.5	1313DFR-3-1.5-1-*	6.5	12.5	18.0	1.5	1313DFR-3-1.5-1.6-*	8.0	14.0	26.0
1.8	1313DFR-3-1.8-1-*	7.0	13.0	18.0	1.8	1313DFR-3-1.8-1.6-*	8.5	15.5	26.0
2.2	1313DFR-3-2.2-1-*	7.5	13.5	18.0	2.2	1313DFR-3-2.2-1.6-*	9.0	17.0	26.0
2.7	1313DFR-3-2.7-1-*	7.0	13.0	26.0	2.7	1313DFR-3-2.7-1.6-*	9.5	18.0	26.0
3.3	1313DFR-3-3.3-1-*	7.5	13.5	26.0	3.3	1313DFR-3-3.3-1.6-*	10.5	20.0	26.0
3.9	1313DFR-3-3.9-1-*	8.0	14.5	26.0	3.9	1313DFR-3-3.9-1.6-*	10.0	19.0	31.0
4.7	1313DFR-3-4.7-1-*	8.5	16.0	26.0	4.7	1313DFR-3-4.7-1.6-*	11.0	21.0	31.0
5.6	1313DFR-3-5.6-1-*	9.0	17.0	26.0	5.6	1313DFR-3-5.6-1.6-*	12.0	22.0	31.0
6.8	1313DFR-3-6.8-1-*	9.5	18.0	26.0	6.8	1313DFR-3-6.8-1.6-*	13.0	24.0	31.0

* - Please insert appropriate tolerance code



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

1313DFR

Epoxy Dipped (Radial Leads)

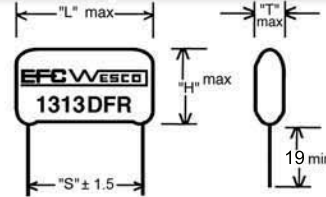
Standard Metallized Polyester Capacitors

Lead Specs - Tinned Copperweld

L	S	LEAD DIA
10.5	7.5	0.6
12.5	10.0	0.6
18.0	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

All dimensions in mm



Cap.	250 VDC			
	μF	Part #	T	H
.001	1313DFR-3-.001-2.5-*	4.0	8.0	10.0
.0012	1313DFR-3-.0012-2.5-*	4.0	8.0	10.0
.0015	1313DFR-3-.0015-2.5-*	4.0	8.0	10.0
.0022	1313DFR-3-.0022-2.5-*	4.0	8.0	10.0
.0027	1313DFR-3-.0027-2.5-*	4.0	8.0	10.0
.0039	1313DFR-3-.0039-2.5-*	4.0	8.0	10.0
.0047	1313DFR-3-.0047-2.5-*	4.0	8.0	10.0
.0056	1313DFR-3-.0056-2.5-*	4.0	8.0	10.0
.0068	1313DFR-3-.0068-2.5-*	4.0	8.0	10.0
.0082	1313DFR-3-.0082-2.5-*	4.0	8.0	10.0
.01	1313DFR-3-.01-2.5-*	4.0	8.0	10.0
.012	1313DFR-3-.012-2.5-*	4.0	8.0	10.0
.015	1313DFR-3-.015-2.5-*	4.0	8.0	10.0
.018	1313DFR-3-.018-2.5-*	4.0	8.0	10.0
.022	1313DFR-3-.022-2.5-*	4.0	8.0	10.0
.027	1313DFR-3-.027-2.5-*	4.0	8.0	10.0
.033	1313DFR-3-.033-2.5-*	4.0	8.5	10.0
.039	1313DFR-3-.039-2.5-*	4.0	9.0	10.0
.047	1313DFR-3-.047-2.5-*	4.5	9.0	10.0
.056	1313DFR-3-.056-2.5-*	4.0	9.0	12.5
.068	1313DFR-3-.068-2.5-*	4.5	9.0	12.5
.082	1313DFR-3-.082-2.5-*	4.5	9.5	12.5
.1	1313DFR-3-.1-2.5-*	5.0	10.0	12.5
.12	1313DFR-3-.12-2.5-*	5.5	11.0	12.5
.15	1313DFR-3-.15-2.5-*	6.5	12.0	12.5
.18	1313DFR-3-.18-2.5-*	5.0	10.0	18.0
.22	1313DFR-3-.22-2.5-*	5.5	11.0	18.0
.27	1313DFR-3-.27-2.5-*	6.0	12.0	18.0
.33	1313DFR-3-.33-2.5-*	6.5	12.5	18.0
.39	1313DFR-3-.39-2.5-*	7.0	13.0	18.0
.47	1313DFR-3-.47-2.5-*	7.5	13.5	18.0
.56	1313DFR-3-.56-2.5-*	7.0	13.0	26.0
.68	1313DFR-3-.68-2.5-*	8.0	14.0	26.0
.82	1313DFR-3-.82-2.5-*	8.5	15.5	26.0
1.0	1313DFR-3-1.0-2.5-*	9.0	16.5	26.0
1.2	1313DFR-3-1.2-2.5-*	9.5	17.0	26.0
1.5	1313DFR-3-1.5-2.5-*	10.0	19.0	26.0
1.8	1313DFR-3-1.8-2.5-*	9.5	17.0	31.0
2.2	1313DFR-3-2.2-2.5-*	10.0	19.0	31.0
2.7	1313DFR-3-2.7-2.5-*	11.5	21.0	31.0
3.3	1313DFR-3-3.3-2.5-*	15.0	26.0	31.0
3.9	1313DFR-3-3.9-2.5-*	13.5	25.0	31.0
4.7	1313DFR-3-4.7-2.5-*	15.0	26.0	31.0
5.6	1313DFR-3-5.6-2.5-*	14.5	25.0	44.0
6.8	1313DFR-3-6.8-2.5-*	16.0	30.0	44.0

Cap.	400 VDC			
	μF	Part #	T	H
.001	1313DFR-3-.001-4-*	4.0	8.0	10.0
.0012	1313DFR-3-.0012-4-*	4.0	8.0	10.0
.0015	1313DFR-3-.0015-4-*	4.0	8.0	10.0
.0022	1313DFR-3-.0022-4-*	4.0	8.0	10.0
.0027	1313DFR-3-.0027-4-*	4.0	8.0	10.0
.0039	1313DFR-3-.0039-4-*	4.0	8.0	10.0
.0047	1313DFR-3-.0047-4-*	4.0	8.0	10.0
.0056	1313DFR-3-.0056-4-*	4.0	8.0	10.0
.0068	1313DFR-3-.0068-4-*	4.0	8.0	10.0
.0082	1313DFR-3-.0082-4-*	4.0	8.0	10.0
.01	1313DFR-3-.01-4-*	4.0	8.0	10.0
.012	1313DFR-3-.012-4-*	4.0	8.5	10.0
.015	1313DFR-3-.015-4-*	4.5	9.0	10.0
.018	1313DFR-3-.018-4-*	4.0	9.0	12.5
.022	1313DFR-3-.022-4-*	4.5	9.0	12.5
.027	1313DFR-3-.027-4-*	4.5	9.5	12.5
.033	1313DFR-3-.033-4-*	5.0	10.0	12.5
.039	1313DFR-3-.039-4-*	6.0	11.0	12.5
.047	1313DFR-3-.047-4-*	6.5	12.0	12.5
.056	1313DFR-3-.056-4-*	5.0	10.0	18.0
.068	1313DFR-3-.068-4-*	5.5	11.0	18.0
.082	1313DFR-3-.082-4-*	5.5	11.5	18.0
.1	1313DFR-3-.1-4-*	6.5	12.5	18.0
.12	1313DFR-3-.12-4-*	7.0	13.0	18.0
.15	1313DFR-3-.15-4-*	7.5	13.5	18.0
.18	1313DFR-3-.18-4-*	6.5	12.5	26.0
.22	1313DFR-3-.22-4-*	7.0	13.0	26.0
.27	1313DFR-3-.27-4-*	8.0	14.5	26.0
.33	1313DFR-3-.33-4-*	8.5	16.0	26.0
.39	1313DFR-3-.39-4-*	9.0	17.0	26.0
.47	1313DFR-3-.47-4-*	9.5	18.0	26.0
.56	1313DFR-3-.56-4-*	10.0	19.0	31.0
.68	1313DFR-3-.68-4-*	10.5	20.0	31.0
.82	1313DFR-3-.82-4-*	11.5	22.0	31.0
1.0	1313DFR-3-1.0-4-*	13.0	24.0	31.0
1.2	1313DFR-3-1.2-4-*	14.0	25.5	31.0
1.5	1313DFR-3-1.5-4-*	15.5	27.0	31.0
1.8	1313DFR-3-1.8-4-*	16.5	30.3	31.0
2.2	1313DFR-3-2.2-4-*	17.0	32.0	31.0
2.7	1313DFR-3-2.7-4-*	15.5	28.0	44.0
3.3	1313DFR-3-3.3-4-*	17.0	32.0	44.0
3.9	1313DFR-3-3.9-4-*	18.0	33.0	44.0
4.7	1313DFR-3-4.7-4-*	20.0	35.0	44.0

* - Please insert appropriate tolerance code



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

1313DFR

Epoxy Dipped (Radial Leads)

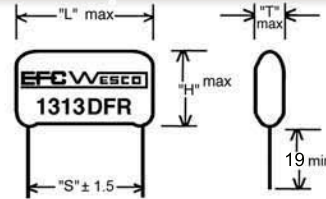
Standard Metallized Polyester Capacitors

Lead Specs - Tinned Copperweld

L	S	LEAD DIA
10.5	7.5	0.6
12.5	10.0	0.6
18.0	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

All dimensions in mm



Cap.	630 VDC				
µF	Part #	T	H	L	
.001	1313DFR-3-.001-6.3-*	4.0	8.0	10.0	
.0012	1313DFR-3-.0012-6.3-*	4.0	8.0	10.0	
.0015	1313DFR-3-.0015-6.3-*	4.0	8.0	10.0	
.0022	1313DFR-3-.0022-6.3-*	4.0	8.0	10.0	
.0027	1313DFR-3-.0027-6.3-*	4.0	8.0	10.0	
.0039	1313DFR-3-.0039-6.3-*	4.0	8.0	10.0	
.0047	1313DFR-3-.0047-6.3-*	4.0	8.0	10.0	
.0056	1313DFR-3-.0056-6.3-*	4.0	9.0	10.0	
.0068	1313DFR-3-.0068-6.3-*	4.0	9.0	12.5	
.0082	1313DFR-3-.0082-6.3-*	4.5	9.0	12.5	
.01	1313DFR-3-.01-6.3-*	4.5	9.0	12.5	
.012	1313DFR-3-.012-6.3-*	5.0	10.0	12.5	
.015	1313DFR-3-.015-6.3-*	5.5	11.0	12.5	
.018	1313DFR-3-.018-6.3-*	6.0	11.5	12.5	
.022	1313DFR-3-.022-6.3-*	6.0	12.0	12.5	
.027	1313DFR-3-.027-6.3-*	5.0	10.0	18.0	
.033	1313DFR-3-.033-6.3-*	5.5	11.0	18.0	
.039	1313DFR-3-.039-6.3-*	6.0	11.5	18.0	
.047	1313DFR-3-.047-6.3-*	6.0	12.0	18.0	
.056	1313DFR-3-.056-6.3-*	6.5	12.5	18.0	
.068	1313DFR-3-.068-6.3-*	7.0	13.0	18.0	
.082	1313DFR-3-.082-6.3-*	7.5	13.5	18.0	
.1	1313DFR-3-.1-6.3-*	7.0	13.0	26.0	
.12	1313DFR-3-.12-6.3-*	8.0	14.0	26.0	
.15	1313DFR-3-.15-6.3-*	8.5	15.0	26.0	
.18	1313DFR-3-.18-6.3-*	9.0	17.0	26.0	
.22	1313DFR-3-.22-6.3-*	10.0	19.0	26.0	
.27	1313DFR-3-.27-6.3-*	9.5	17.0	31.0	
.33	1313DFR-3-.33-6.3-*	10.0	19.0	31.0	
.39	1313DFR-3-.39-6.3-*	11.0	20.5	31.0	
.47	1313DFR-3-.47-6.3-*	12.0	22.0	31.0	
.56	1313DFR-3-.56-6.3-*	13.0	23.0	31.0	
.68	1313DFR-3-.68-6.3-*	13.5	25.0	31.0	
.82	1313DFR-3-.82-6.3-*	14.5	27.0	31.0	
1.0	1313DFR-3-1.0-6.3-*	16.5	30.0	31.0	
1.2	1313DFR-3-1.2-6.3-*	15.0	27.0	44.0	
1.5	1313DFR-3-1.5-6.3-*	16.5	30.0	44.0	
1.8	1313DFR-3-1.8-6.3-*	18.0	33.0	44.0	
2.2	1313DFR-3-2.2-6.3-*	20.5	36.0	44.0	

Cap.	1000 VDC				
µF	Part #	T	H	L	
.001	1313DFR-3-.001-10-*	4.0	8.0	12.5	
.0012	1313DFR-3-.0012-10-*	4.0	8.5	12.5	
.0015	1313DFR-3-.0015-10-*	4.0	9.0	12.5	
.0022	1313DFR-3-.0022-10-*	4.5	9.0	12.5	
.0027	1313DFR-3-.0027-10-*	4.5	9.0	12.5	
.0039	1313DFR-3-.0039-10-*	4.5	9.0	12.5	
.0047	1313DFR-3-.0047-10-*	4.5	9.5	12.5	
.0056	1313DFR-3-.0056-10-*	4.5	9.5	12.5	
.0068	1313DFR-3-.0068-10-*	5.0	10.0	12.5	
.0082	1313DFR-3-.0082-10-*	5.0	10.0	12.5	
.01	1313DFR-3-.01-10-*	5.5	11.0	12.5	
.012	1313DFR-3-.012-10-*	6.0	12.0	12.5	
.015	1313DFR-3-.015-10-*	5.0	10.0	18.0	
.018	1313DFR-3-.018-10-*	5.5	11.0	18.0	
.022	1313DFR-3-.022-10-*	6.0	12.0	18.0	
.027	1313DFR-3-.027-10-*	6.5	12.5	18.0	
.033	1313DFR-3-.033-10-*	7.0	13.0	18.0	
.039	1313DFR-3-.039-10-*	7.5	13.5	18.0	
.047	1313DFR-3-.047-10-*	7.0	13.0	26.0	
.056	1313DFR-3-.056-10-*	8.0	15.0	26.0	
.068	1313DFR-3-.068-10-*	8.5	16.0	26.0	
.082	1313DFR-3-.082-10-*	9.0	16.5	26.0	
.1	1313DFR-3-.1-10-*	9.5	18.0	26.0	
.12	1313DFR-3-.12-10-*	9.0	16.5	31.0	
.15	1313DFR-3-.15-10-*	10.0	19.0	31.0	
.18	1313DFR-3-.18-10-*	10.5	20.0	31.0	
.22	1313DFR-3-.22-10-*	11.5	21.0	31.0	
.27	1313DFR-3-.27-10-*	12.5	23.0	31.0	
.33	1313DFR-3-.33-10-*	13.5	25.0	31.0	
.39	1313DFR-3-.39-10-*	14.5	27.0	31.0	
.47	1313DFR-3-.47-10-*	16.5	30.0	31.0	
.56	1313DFR-3-.56-10-*	15.0	27.0	44.0	
.68	1313DFR-3-.68-10-*	16.5	30.0	44.0	
.82	1313DFR-3-.82-10-*	17.0	32.0	44.0	
1.0	1313DFR-3-1.0-10-*	20.0	35.0	44.0	

* - Please insert appropriate tolerance code



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

1313DFR Epoxy Dipped (Radial Leads)

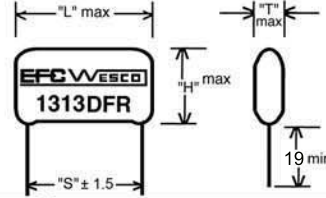
Miniature Metallized Polyester Capacitors

Lead Specs -
Tinned Copperweld

L	S	DIA
7.5	5.0	0.5
10.0	7.5	0.6
12.5	10.0	0.6
18.5	15.0	0.8
26.0	22.5	0.8
31.0	27.5	0.8

Dimensions and Ratings

All dimensions in mm



63 VDC					100 VDC					250 VDC				
Cap.	Part #	T	H	L	Cap.	Part #	T	H	L	Cap.	Part #	T	H	L
.001	1313DFR-2-001-63*	3.5	6.5	7.5	.001	1313DFR-2-001-1*	3.5	6.5	7.5	.001	1313DFR-2-001-2.5*	4.0	7.0	10.0
.0012	1313DFR-2-0012-63*	3.5	6.5	7.5	.0012	1313DFR-2-0012-1*	3.5	6.5	7.5	.0012	1313DFR-2-0012-2.5*	4.0	7.0	10.0
.0015	1313DFR-2-0015-63*	3.5	6.5	7.5	.0015	1313DFR-2-0015-1*	3.5	6.5	7.5	.0015	1313DFR-2-0015-2.5*	4.0	7.0	10.0
.0022	1313DFR-2-0022-63*	3.5	6.5	7.5	.0022	1313DFR-2-0022-1*	3.5	6.5	7.5	.0022	1313DFR-2-0022-2.5*	4.0	7.0	10.0
.0027	1313DFR-2-0027-63*	3.5	6.5	7.5	.0027	1313DFR-2-0027-1*	4.0	7.0	7.5	.0027	1313DFR-2-0027-2.5*	4.0	7.5	10.0
.0039	1313DFR-2-0039-63*	3.5	6.5	7.5	.0039	1313DFR-2-0039-1*	4.0	7.0	7.5	.0039	1313DFR-2-0039-2.5*	4.0	7.5	10.0
.0047	1313DFR-2-0047-63*	3.5	6.5	7.5	.0047	1313DFR-2-0047-1*	4.0	7.0	7.5	.0047	1313DFR-2-0047-2.5*	4.0	7.5	10.0
.0056	1313DFR-2-0056-63*	3.5	6.5	7.5	.0056	1313DFR-2-0056-1*	4.0	7.0	7.5	.0056	1313DFR-2-0056-2.5*	4.0	7.5	10.0
.0068	1313DFR-2-0068-63*	3.5	6.5	7.5	.0068	1313DFR-2-0068-1*	4.0	7.0	7.5	.0068	1313DFR-2-0068-2.5*	4.0	7.5	10.0
.0082	1313DFR-2-0082-63*	3.5	6.5	7.5	.0082	1313DFR-2-0082-1*	4.0	7.0	7.5	.0082	1313DFR-2-0082-2.5*	4.0	7.5	10.0
.01	1313DFR-2-01-63*	3.5	6.5	7.5	.01	1313DFR-2-01-1*	4.0	7.5	7.5	.01	1313DFR-2-01-2.5*	4.0	7.5	10.0
.012	1313DFR-2-012-63*	3.5	6.5	7.5	.012	1313DFR-2-012-1*	4.0	7.5	7.5	.012	1313DFR-2-012-2.5*	4.0	7.5	10.0
.015	1313DFR-2-015-63*	3.5	6.5	7.5	.015	1313DFR-2-015-1*	4.0	7.5	7.5	.015	1313DFR-2-015-2.5*	4.5	7.5	10.0
.018	1313DFR-2-018-63*	3.5	6.5	7.5	.018	1313DFR-2-018-1*	4.0	7.5	7.5	.018	1313DFR-2-018-2.5*	4.5	7.5	10.0
.022	1313DFR-2-022-63*	3.5	6.5	7.5	.022	1313DFR-2-022-1*	4.0	7.5	7.5	.022	1313DFR-2-022-2.5*	4.5	7.5	10.0
.027	1313DFR-2-027-63*	3.5	6.5	7.5	.027	1313DFR-2-027-1*	4.0	7.5	7.5	.027	1313DFR-2-027-2.5*	4.5	7.5	10.0
.033	1313DFR-2-033-63*	3.5	6.5	7.5	.033	1313DFR-2-033-1*	4.0	7.5	7.5	.033	1313DFR-2-033-2.5*	4.5	7.5	10.0
.039	1313DFR-2-039-63*	3.5	6.5	7.5	.039	1313DFR-2-039-1*	4.5	7.5	7.5	.039	1313DFR-2-039-2.5*	4.5	7.5	10.0
.047	1313DFR-2-047-63*	3.5	6.5	7.5	.047	1313DFR-2-047-1*	4.5	7.5	7.5	.047	1313DFR-2-047-2.5*	4.5	7.5	10.0
.056	1313DFR-2-056-63*	3.5	6.5	7.5	.056	1313DFR-2-056-1*	4.5	8.0	7.5	.056	1313DFR-2-056-2.5*	4.5	8.0	10.0
.068	1313DFR-2-068-63*	3.5	6.5	7.5	.068	1313DFR-2-068-1*	5.0	8.5	7.5	.068	1313DFR-2-068-2.5*	4.5	8.0	10.0
.082	1313DFR-2-082-63*	3.5	7.0	7.5	.082	1313DFR-2-082-1*	5.0	9.5	7.5	.082	1313DFR-2-082-2.5*	5.0	8.5	10.0
.1	1313DFR-2-1-63*	4.0	7.0	7.5	.1	1313DFR-2-1-1*	5.0	10.0	7.5	.1	1313DFR-2-1-2.5*	6.0	8.5	10.0
.12	1313DFR-2-12-63*	4.0	7.0	7.5	.12	1313DFR-2-12-1*	4.5	7.5	10.0	.12	1313DFR-2-12-2.5*	6.0	9.0	10.0
.15	1313DFR-2-15-63*	4.0	7.5	7.5	.15	1313DFR-2-15-1*	4.5	7.5	10.0	.15	1313DFR-2-15-2.5*	6.0	11.0	10.0
.18	1313DFR-2-18-63*	4.0	8.0	7.5	.18	1313DFR-2-18-1*	5.0	10.0	12.5	.18	1313DFR-2-18-2.5*	5.0	10.0	12.5
.22	1313DFR-2-22-63*	4.0	8.5	7.5	.22	1313DFR-2-22-1*	5.0	8.5	10.0	.22	1313DFR-2-22-2.5*	5.5	10.5	12.5
.27	1313DFR-2-27-63*	4.5	9.0	7.5	.27	1313DFR-2-27-1*	5.5	10.0	10.0	.27	1313DFR-2-27-2.5*	6.0	11.5	12.5
.33	1313DFR-2-33-63*	4.5	8.5	10.0	.33	1313DFR-2-33-1*	6.0	10.5	10.0	.33	1313DFR-2-33-2.5*	6.5	12.0	12.5
.39	1313DFR-2-39-63*	5.0	8.5	10.0	.39	1313DFR-2-39-1*	6.0	11.0	10.0	.39	1313DFR-2-39-2.5*	5.0	12.0	18.5
.47	1313DFR-2-47-63*	5.0	9.0	10.0	.47	1313DFR-2-47-1*	6.0	12.0	10.0	.47	1313DFR-2-47-2.5*	5.5	12.5	18.5
.56	1313DFR-2-56-63*	5.0	10.0	10.0	.56	1313DFR-2-56-1*	5.5	11.0	12.5	.56	1313DFR-2-56-2.5*	5.5	13.0	18.5
.68	1313DFR-2-68-63*	5.5	11.0	10.0	.68	1313DFR-2-68-1*	6.0	12.0	12.5	.68	1313DFR-2-68-2.5*	6.0	13.5	18.5
.82	1313DFR-2-82-63*	6.0	12.0	10.0	.82	1313DFR-2-82-1*	6.0	13.5	12.5	.82	1313DFR-2-82-2.5*	6.5	14.5	18.5
1.0	1313DFR-2-1.0-63*	6.0	12.5	10.0	1.0	1313DFR-2-1.0-1*	7.0	14.0	12.5	1.0	1313DFR-2-1.0-2.5*	7.5	15.0	18.5
1.2	1313DFR-2-1.2-63*	6.0	12.0	12.5	1.2	1313DFR-2-1.2-1*	5.5	13.0	18.5	1.2	1313DFR-2-1.2-2.5*	8.0	16.0	18.5
1.5	1313DFR-2-1.5-63*	6.5	12.5	12.5	1.5	1313DFR-2-1.5-1*	6.0	13.5	18.5	1.5	1313DFR-2-1.5-2.5*	9.0	17.0	18.5
1.8	1313DFR-2-1.8-63*	6.5	13.5	12.5	1.8	1313DFR-2-1.8-1*	6.5	14.5	18.5	1.8	1313DFR-2-1.8-2.5*	7.5	15.5	26.0
2.2	1313DFR-2-2.2-63*	5.0	10.0	18.5	2.2	1313DFR-2-2.2-1*	7.0	15.0	18.5	2.2	1313DFR-2-2.2-2.5*	8.5	16.5	26.0
2.7	1313DFR-2-2.7-63*	5.5	11.0	18.5	2.7	1313DFR-2-2.7-1*	8.0	16.0	18.5	2.7	1313DFR-2-2.7-2.5*	9.5	17.0	26.0
3.3	1313DFR-2-3.3-63*	6.0	11.5	18.5	3.3	1313DFR-2-3.3-1*	8.5	16.5	18.5	3.3	1313DFR-2-3.3-2.5*	10.5	18.0	26.0
3.9	1313DFR-2-3.9-63*	6.5	12.0	18.5	3.9	1313DFR-2-3.9-1*	7.0	16.5	26.0	3.9	1313DFR-2-3.9-2.5*	11.0	20.5	26.0
4.7	1313DFR-2-4.7-63*	7.0	13.0	18.5	4.7	1313DFR-2-4.7-1*	7.5	17.0	26.0	4.7	1313DFR-2-4.7-2.5*	12.0	21.5	26.0
5.6	1313DFR-2-5.6-63*	8.0	14.0	18.5	5.6	1313DFR-2-5.6-1*	8.5	17.5	26.0	5.6	1313DFR-2-5.6-2.5*	12.0	21.0	31.0
6.8	1313DFR-2-6.8-63*	8.5	15.0	18.5	6.8	1313DFR-2-6.8-1*	9.0	18.5	26.0	6.8	1313DFR-2-6.8-2.5*	13.0	22.5	31.0

* - Please insert appropriate tolerance code



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

1313DFR
Epoxy Dipped (Radial Leads)

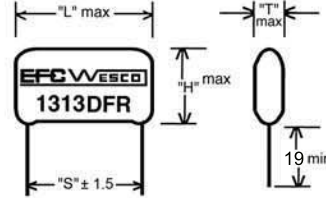
Miniature Metallized Polyester Capacitors

Lead Specs -
Tinned Copperweld

L	S	DIA
7.5	5.0	0.5
10.0	7.5	0.6
12.5	10.0	0.6
18.5	15.0	0.8
26.0	22.5	0.8
31.0	27.5	0.8

Dimensions and Ratings

All dimensions in mm



Cap.	400 VDC			
μF	Part #	T	H	L
.001	1313DFR-2-.001-4-*	4.5	7.5	10.0
.0012	1313DFR-2-.0012-4-*	4.5	7.5	10.0
.0015	1313DFR-2-.0015-4-*	4.5	7.5	10.0
.0022	1313DFR-2-.0022-4-*	4.5	7.5	10.0
.0027	1313DFR-2-.0027-4-*	4.5	7.5	10.0
.0039	1313DFR-2-.0039-4-*	4.5	7.5	10.0
.0047	1313DFR-2-.0047-4-*	4.5	7.5	10.0
.0056	1313DFR-2-.0056-4-*	4.5	7.5	10.0
.0068	1313DFR-2-.0068-4-*	4.5	7.5	10.0
.0082	1313DFR-2-.0082-4-*	4.5	7.5	10.0
.01	1313DFR-2-.01-4-*	4.5	7.5	10.0
.012	1313DFR-2-.012-4-*	4.5	7.5	10.0
.015	1313DFR-2-.015-4-*	4.5	7.5	10.0
.018	1313DFR-2-.018-4-*	4.5	7.5	10.0
.022	1313DFR-2-.022-4-*	5.0	8.5	10.0
.027	1313DFR-2-.027-4-*	5.5	9.0	10.0
.033	1313DFR-2-.033-4-*	6.0	9.5	10.0
.039	1313DFR-2-.039-4-*	5.0	8.0	12.5
.047	1313DFR-2-.047-4-*	5.0	8.5	12.5
.056	1313DFR-2-.056-4-*	5.0	9.5	12.5
.068	1313DFR-2-.068-4-*	5.5	10.5	12.5
.082	1313DFR-2-.082-4-*	6.0	11.0	12.5
.1	1313DFR-2-.1-4-*	6.5	12.0	12.5
.12	1313DFR-2-.12-4-*	5.0	10.0	18.5
.15	1313DFR-2-.15-4-*	5.0	12.5	18.5
.18	1313DFR-2-.18-4-*	5.5	12.5	18.5
.22	1313DFR-2-.22-4-*	6.0	13.0	18.5
.27	1313DFR-2-.27-4-*	6.5	14.5	18.5
.33	1313DFR-2-.33-4-*	7.0	15.0	18.5
.39	1313DFR-2-.39-4-*	7.5	15.5	18.5
.47	1313DFR-2-.47-4-*	8.0	17.0	18.5
.56	1313DFR-2-.56-4-*	6.5	16.0	26.0
.68	1313DFR-2-.68-4-*	7.0	16.5	26.0
.82	1313DFR-2-.82-4-*	8.0	17.5	26.0
1.0	1313DFR-2-1.0-4-*	8.5	19.0	26.0
1.2	1313DFR-2-1.2-4-*	9.5	19.0	26.0
1.5	1313DFR-2-1.5-4-*	9.5	19.0	31.0
1.8	1313DFR-2-1.8-4-*	11.0	20.5	31.0
2.2	1313DFR-2-2.2-4-*	12.5	22.0	31.0
2.7	1313DFR-2-2.7-4-*	13.5	23.0	31.0
3.3	1313DFR-2-3.3-4-*	15.0	25.0	31.0
3.9	1313DFR-2-3.9-4-*	16.5	27.0	31.0
4.7	1313DFR-2-4.7-4-*	19.5	30.0	31.0

Cap.	630 VDC			
μF	Part #	T	H	L
.001	1313DFR-2-.001-6.3-*	4.5	7.5	12.5
.0012	1313DFR-2-.0012-6.3-*	4.5	7.5	12.5
.0015	1313DFR-2-.0015-6.3-*	4.5	7.5	12.5
.0022	1313DFR-2-.0022-6.3-*	4.5	7.5	12.5
.0027	1313DFR-2-.0027-6.3-*	4.5	7.5	12.5
.0039	1313DFR-2-.0039-6.3-*	4.5	7.5	12.5
.0047	1313DFR-2-.0047-6.3-*	4.5	7.5	12.5
.0056	1313DFR-2-.0056-6.3-*	4.5	7.5	12.5
.0068	1313DFR-2-.0068-6.3-*	4.5	7.5	12.5
.0082	1313DFR-2-.0082-6.3-*	4.5	7.5	12.5
.01	1313DFR-2-.01-6.3-*	4.5	7.5	12.5
.012	1313DFR-2-.012-6.3-*	4.5	8.0	12.5
.015	1313DFR-2-.015-6.3-*	5.0	8.5	12.5
.018	1313DFR-2-.018-6.3-*	5.0	9.5	12.5
.022	1313DFR-2-.022-6.3-*	5.5	10.0	12.5
.027	1313DFR-2-.027-6.3-*	5.5	11.0	12.5
.033	1313DFR-2-.033-6.3-*	6.0	12.0	12.5
.039	1313DFR-2-.039-6.3-*	6.0	12.5	12.5
.047	1313DFR-2-.047-6.3-*	6.5	13.5	12.5
.056	1313DFR-2-.056-6.3-*	5.5	10.5	18.5
.068	1313DFR-2-.068-6.3-*	6.0	11.0	18.5
.082	1313DFR-2-.082-6.3-*	6.5	12.0	18.5
.1	1313DFR-2-.1-6.3-*	6.5	13.5	18.5
.12	1313DFR-2-.12-6.3-*	6.5	14.5	18.5
.15	1313DFR-2-.15-6.3-*	7.5	15.5	18.5
.18	1313DFR-2-.18-6.3-*	8.0	16.0	18.5
.22	1313DFR-2-.22-6.3-*	9.0	16.5	18.5
.27	1313DFR-2-.27-6.3-*	7.0	16.5	26.0
.33	1313DFR-2-.33-6.3-*	8.0	17.0	26.0
.39	1313DFR-2-.39-6.3-*	8.5	18.0	26.0
.47	1313DFR-2-.47-6.3-*	9.5	18.5	26.0
.56	1313DFR-2-.56-6.3-*	10.0	20.0	26.0
.68	1313DFR-2-.68-6.3-*	11.5	21.0	26.0
.82	1313DFR-2-.82-6.3-*	11.5	20.5	31.0
1.0	1313DFR-2-1.0-6.3-*	12.5	22.0	31.0
1.2	1313DFR-2-1.2-6.3-*	13.5	23.0	31.0
1.5	1313DFR-2-1.5-6.3-*	15.5	25.0	31.0
1.8	1313DFR-2-1.8-6.3-*	17.0	27.0	31.0
2.2	1313DFR-2-2.2-6.3-*	19.5	29.0	31.0

* - Please insert appropriate tolerance code