

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

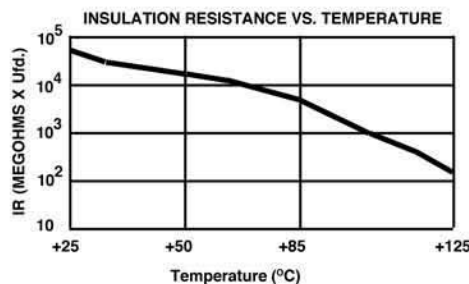
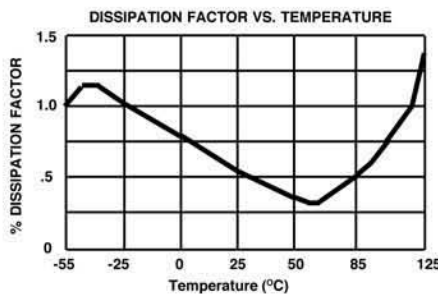
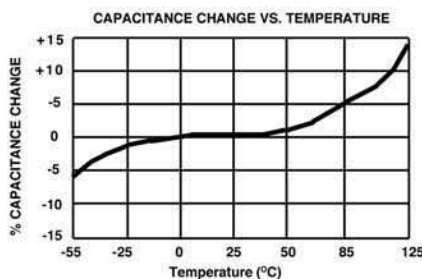
Series 1306 shall meet the requirements of MIL-STD. 202, Method 103B.

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

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

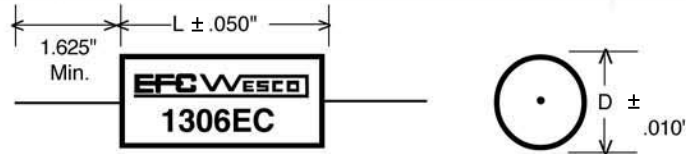


Please consult factory for special requirements, including non-standard values and sizes

1306EC
Tubular Plastic Case
(Axial Leads)

Polyester and Foil Capacitors

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



Dimensions and Ratings

Cap.	50 VDC			Cap.	100 VDC			Cap.	160 VDC		
μF	Part #	D	L	μF	Part #	D	L	μF	Part #	D	L
.001	1306EC-3-.001-0-*	.187	.375	.001	1306EC-3-.001-1-*	.187	.375	.001	1306EC-3-.001-10-1.6-*	.187	.375
.0012	1306EC-3-.0012-0-*	.187	.375	.0012	1306EC-3-.0012-1-*	.187	.375	.0012	1306EC-3-.0012-10-1.6-*	.187	.375
.0015	1306EC-3-.0015-0-*	.187	.375	.0015	1306EC-3-.0015-1-*	.187	.375	.0015	1306EC-3-.0015-10-1.6-*	.187	.375
.0022	1306EC-3-.0022-0-*	.187	.375	.0022	1306EC-3-.0022-1-*	.187	.375	.0022	1306EC-3-.0022-10-1.6-*	.187	.375
.0027	1306EC-3-.0027-0-*	.187	.375	.0027	1306EC-3-.0027-1-*	.187	.375	.0027	1306EC-3-.0027-10-1.6-*	.187	.375
.0039	1306EC-3-.0039-0-*	.187	.375	.0039	1306EC-3-.0039-1-*	.187	.375	.0039	1306EC-3-.0039-10-1.6-*	.187	.375
.0047	1306EC-3-.0047-0-*	.187	.375	.0047	1306EC-3-.0047-1-*	.187	.375	.0047	1306EC-3-.0047-10-1.6-*	.225	.375
.0056	1306EC-3-.0056-0-*	.225	.375	.0056	1306EC-3-.0056-1-*	.187	.375	.0056	1306EC-3-.0056-10-1.6-*	.225	.375
.0068	1306EC-3-.0068-0-*	.225	.375	.0068	1306EC-3-.0068-1-*	.225	.375	.0068	1306EC-3-.0068-10-1.6-*	.225	.375
.0082	1306EC-3-.0082-0-*	.225	.375	.0082	1306EC-3-.0082-1-*	.225	.375	.0082	1306EC-3-.0082-10-1.6-*	.225	.375
.01	1306EC-3-.01-0-*	.187	.500	.01	1306EC-3-.01-1-*	.225	.375	.01	1306EC-3-.01-10-1.6-*	.187	.500
.012	1306EC-3-.012-0-*	.187	.500	.012	1306EC-3-.012-1-*	.187	.500	.012	1306EC-3-.012-10-1.6-*	.225	.500
.015	1306EC-3-.015-0-*	.225	.500	.015	1306EC-3-.015-1-*	.225	.500	.015	1306EC-3-.015-10-1.6-*	.225	.500
.018	1306EC-3-.018-0-*	.225	.500	.018	1306EC-3-.018-1-*	.225	.500	.018	1306EC-3-.018-10-1.6-*	.225	.500
.022	1306EC-3-.022-0-*	.225	.500	.022	1306EC-3-.022-1-*	.225	.500	.022	1306EC-3-.022-10-1.6-*	.260	.550
.027	1306EC-3-.027-0-*	.260	.550	.027	1306EC-3-.027-1-*	.260	.550	.027	1306EC-3-.027-10-1.6-*	.260	.550
.033	1306EC-3-.033-0-*	.260	.550	.033	1306EC-3-.033-1-*	.260	.550	.033	1306EC-3-.033-10-1.6-*	.250	.625
.039	1306EC-3-.039-0-*	.250	.625	.039	1306EC-3-.039-1-*	.250	.625	.039	1306EC-3-.039-10-1.6-*	.250	.625
.047	1306EC-3-.047-0-*	.250	.625	.047	1306EC-3-.047-1-*	.250	.625	.047	1306EC-3-.047-10-1.6-*	.312	.625
.056	1306EC-3-.056-0-*	.250	.625	.056	1306EC-3-.056-1-*	.250	.625	.056	1306EC-3-.056-10-1.6-*	.312	.625
.068	1306EC-3-.068-0-*	.312	.625	.068	1306EC-3-.068-1-*	.312	.625	.068	1306EC-3-.068-10-1.6-*	.312	.625
.082	1306EC-3-.082-0-*	.312	.625	.082	1306EC-3-.082-1-*	.312	.625	.082	1306EC-3-.082-10-1.6-*	.312	.750
.1	1306EC-3-.1-0-*	.312	.625	.1	1306EC-3-.1-1-*	.312	.750	.1	1306EC-3-.1-10-1.6-*	.375	.750
.12	1306EC-3-.12-0-*	.312	.750	.12	1306EC-3-.12-1-*	.312	.750	.12	1306EC-3-.12-10-1.6-*	.375	.750
.15	1306EC-3-.15-0-*	.375	.750	.15	1306EC-3-.15-1-*	.375	.750	.15	1306EC-3-.15-10-1.6-*	.375	.875
.18	1306EC-3-.18-0-*	.375	.750	.18	1306EC-3-.18-1-*	.375	.750	.18	1306EC-3-.18-10-1.6-*	.375	.875
.22	1306EC-3-.22-0-*	.375	.875	.22	1306EC-3-.22-1-*	.375	.875	.22	1306EC-3-.22-10-1.6-*	.437	.875
.27	1306EC-3-.27-0-*	.437	.875	.27	1306EC-3-.27-1-*	.437	.875	.27	1306EC-3-.27-10-1.6-*	.500	.875
.33	1306EC-3-.33-0-*	.437	.875	.33	1306EC-3-.33-1-*	.500	.875	.33	1306EC-3-.33-10-1.6-*	.500	.875
.39	1306EC-3-.39-0-*	.500	.875	.39	1306EC-3-.39-1-*	.500	.875	.39	1306EC-3-.39-10-1.6-*	.500	1.190
.47	1306EC-3-.47-0-*	.500	1.190	.47	1306EC-3-.47-1-*	.500	1.190	.47	1306EC-3-.47-10-1.6-*	.500	1.190
.56	1306EC-3-.56-0-*	.500	1.190	.56	1306EC-3-.56-1-*	.500	1.190				

* - Please insert appropriate tolerance code

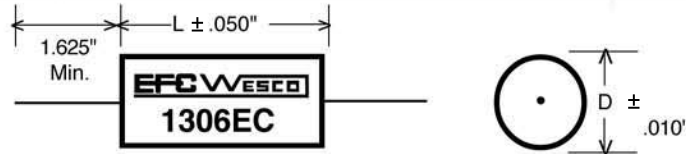


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Tinned Copperweld
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.250 - .440D = 22AWG
Above .440D = 20 AWG



Dimensions and Ratings

Cap.	200 VDC		
μF	Part #	D	L
.001	1306EC-3-.001-2-*	.187	.375
.0012	1306EC-3-.0012-2-*	.187	.375
.0015	1306EC-3-.0015-2-*	.187	.375
.0022	1306EC-3-.0022-2-*	.187	.375
.0027	1306EC-3-.0027-2-*	.225	.375
.0039	1306EC-3-.0039-2-*	.225	.375
.0047	1306EC-3-.0047-2-*	.187	.500
.0056	1306EC-3-.0056-2-*	.225	.500
.0068	1306EC-3-.0068-2-*	.225	.500
.0082	1306EC-3-.0082-2-*	.225	.500
.01	1306EC-3-.01-2-*	.225	.500
.012	1306EC-3-.012-2-*	.260	.550
.015	1306EC-3-.015-2-*	.260	.550
.018	1306EC-3-.018-2-*	.250	.625
.022	1306EC-3-.022-2-*	.250	.625
.027	1306EC-3-.027-2-*	.312	.625
.033	1306EC-3-.033-2-*	.312	.625
.039	1306EC-3-.039-2-*	.312	.625
.047	1306EC-3-.047-2-*	.312	.750
.056	1306EC-3-.056-2-*	.375	.750
.068	1306EC-3-.068-2-*	.375	.750
.082	1306EC-3-.082-2-*	.375	.875
.1	1306EC-3-.1-2-*	.437	.875
.12	1306EC-3-.12-2-*	.437	.875
.15	1306EC-3-.15-2-*	.500	.875
.18	1306EC-3-.18-2-*	.500	.875
.22	1306EC-3-.22-2-*	.500	1.190

Cap.	400 VDC		
μF	Part #	D	L
.001	1306EC-3-.001-4-*	.187	.375
.0012	1306EC-3-.0012-4-*	.225	.375
.0015	1306EC-3-.0015-4-*	.225	.375
.0022	1306EC-3-.0022-4-*	.187	.500
.0027	1306EC-3-.0027-4-*	.187	.500
.0039	1306EC-3-.0039-4-*	.225	.500
.0047	1306EC-3-.0047-4-*	.225	.500
.0056	1306EC-3-.0056-4-*	.260	.550
.0068	1306EC-3-.0068-4-*	.260	.550
.0082	1306EC-3-.0082-4-*	.225	.625
.01	1306EC-3-.01-4-*	.250	.625
.012	1306EC-3-.012-4-*	.312	.625
.015	1306EC-3-.015-4-*	.312	.625
.018	1306EC-3-.018-4-*	.312	.625
.022	1306EC-3-.022-4-*	.312	.750
.027	1306EC-3-.027-4-*	.312	.750
.033	1306EC-3-.033-4-*	.312	.750
.039	1306EC-3-.039-4-*	.312	.875
.047	1306EC-3-.047-4-*	.312	.875
.056	1306EC-3-.056-4-*	.437	.875
.068	1306EC-3-.068-4-*	.437	.875
.082	1306EC-3-.082-4-*	.500	.875
.1	1306EC-3-.1-4-*	.500	1.190
.12	1306EC-3-.12-4-*	.500	1.190

Cap.	600 VDC		
μF	Part #	D	L
.001	1306EC-3-.001-6-*	.187	.500
.0012	1306EC-3-.0012-6-*	.187	.500
.0015	1306EC-3-.0015-6-*	.225	.500
.0022	1306EC-3-.0022-6-*	.260	.550
.0027	1306EC-3-.0027-6-*	.260	.550
.0039	1306EC-3-.0039-6-*	.225	.625
.0047	1306EC-3-.0047-6-*	.250	.625
.0056	1306EC-3-.0056-6-*	.312	.625
.0068	1306EC-3-.0068-6-*	.312	.625
.0082	1306EC-3-.0082-6-*	.312	.625
.01	1306EC-3-.01-6-*	.312	.750
.012	1306EC-3-.012-6-*	.312	.750
.015	1306EC-3-.015-6-*	.375	.750
.018	1306EC-3-.018-6-*	.375	.750
.022	1306EC-3-.022-6-*	.375	.875
.027	1306EC-3-.027-6-*	.437	.875
.033	1306EC-3-.033-6-*	.437	.875
.039	1306EC-3-.039-6-*	.500	.875
.047	1306EC-3-.047-6-*	.500	.875
.056	1306EC-3-.056-6-*	.500	1.190
.068	1306EC-3-.068-6-*	.500	1.190

* - Please insert appropriate tolerance code