



Series HV1313TC Metallized Polyester

Features: Flame retardant to UL94, small size, self healing, long life availability, limited AC applications.

Construction: Tubular with axial leads, polyester tape wrap, epoxy end fill, tinned solid copper clad wire leads, dry construction.

Applications: High voltage DC power supplies.

Packaging: Axial wrap and fill (TC).

Specifications

1) Temperature Range

-55°C to 85°C at rated voltage.

2) Capacitance Range

0.001 μ F to 0.1 μ F

3) Capacitance Tolerances

5%, 10% or 20%.

4) Dielectric Strength

140% rated for 10 seconds minimum.

5) Voltage Ratings

2KVDC to 15KVDC. Higher ratings available with custom designs.

6) Dissipation Factor

Shall be 1% max. when measured at 1KHz and 25°C.

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

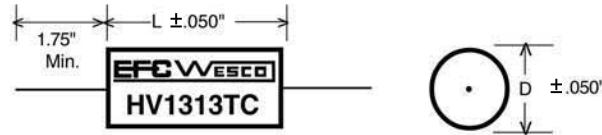


Please consult factory for special requirements, including non-standard values and sizes

HV1313TC Tubular Wrap & Fill

High Voltage Metallized Polyester Capacitors

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



Dimensions and Ratings

2000 VDC				3000 VDC				4000 VDC			
Cap.	Part #	D	L	Cap.	Part #	D	L	Cap.	Part #	D	L
.001	HV1313TC-3-.001-2K-*	.234	1.25	.001	HV1313TC-3-.001-3K-*	.250	1.25	.001	HV1313TC-3-.001-4K-*	.250	1.25
.0012	HV1313TC-3-.0012-2K-*	.234	1.25	.0012	HV1313TC-3-.0012-3K-*	.250	1.25	.0012	HV1313TC-3-.0012-4K-*	.250	1.25
.0015	HV1313TC-3-.0015-2K-*	.234	1.25	.0015	HV1313TC-3-.0015-3K-*	.250	1.25	.0015	HV1313TC-3-.0015-4K-*	.250	1.25
.0018	HV1313TC-3-.0018-2K-*	.234	1.25	.0018	HV1313TC-3-.0018-3K-*	.250	1.25	.0018	HV1313TC-3-.0018-4K-*	.250	1.25
.0022	HV1313TC-3-.0022-2K-*	.234	1.25	.0022	HV1313TC-3-.0022-3K-*	.250	1.25	.0022	HV1313TC-3-.0022-4K-*	.250	1.25
.0027	HV1313TC-3-.0027-2K-*	.234	1.25	.0027	HV1313TC-3-.0027-3K-*	.250	1.25	.0027	HV1313TC-3-.0027-4K-*	.250	1.25
.0033	HV1313TC-3-.0033-2K-*	.234	1.25	.0033	HV1313TC-3-.0033-3K-*	.250	1.25	.0033	HV1313TC-3-.0033-4K-*	.265	1.25
.0039	HV1313TC-3-.0039-2K-*	.234	1.25	.0039	HV1313TC-3-.0039-3K-*	.250	1.25	.0039	HV1313TC-3-.0039-4K-*	.281	1.25
.0047	HV1313TC-3-.0047-2K-*	.234	1.25	.0047	HV1313TC-3-.0047-3K-*	.250	1.25	.0047	HV1313TC-3-.0047-4K-*	.312	1.25
.0056	HV1313TC-3-.0056-2K-*	.234	1.25	.0056	HV1313TC-3-.0056-3K-*	.250	1.25	.0056	HV1313TC-3-.0056-4K-*	.328	1.25
.0068	HV1313TC-3-.0068-2K-*	.234	1.25	.0068	HV1313TC-3-.0068-3K-*	.250	1.25	.0068	HV1313TC-3-.0068-4K-*	.358	1.25
.0082	HV1313TC-3-.0082-2K-*	.234	1.25	.0082	HV1313TC-3-.0082-3K-*	.265	1.25	.0082	HV1313TC-3-.0082-4K-*	.375	1.25
.01	HV1313TC-3-.01-2K-*	.234	1.25	.01	HV1313TC-3-.01-3K-*	.286	1.25	.01	HV1313TC-3-.01-4K-*	.408	1.25
.012	HV1313TC-3-.012-2K-*	.234	1.25	.012	HV1313TC-3-.012-3K-*	.317	1.25	.012	HV1313TC-3-.012-4K-*	.445	1.25
.015	HV1313TC-3-.015-2K-*	.250	1.25	.015	HV1313TC-3-.015-3K-*	.343	1.25	.015	HV1313TC-3-.015-4K-*	.375	1.75
.018	HV1313TC-3-.018-2K-*	.265	1.25	.018	HV1313TC-3-.018-3K-*	.375	1.25	.018	HV1313TC-3-.018-4K-*	.406	1.75
.022	HV1313TC-3-.022-2K-*	.296	1.25	.022	HV1313TC-3-.022-3K-*	.406	1.25	.022	HV1313TC-3-.022-4K-*	.428	1.75
.027	HV1313TC-3-.027-2K-*	.312	1.25	.027	HV1313TC-3-.027-3K-*	.359	1.75	.027	HV1313TC-3-.027-4K-*	.484	1.75
.033	HV1313TC-3-.033-2K-*	.343	1.25	.033	HV1313TC-3-.033-3K-*	.375	1.75	.033	HV1313TC-3-.033-4K-*	.531	1.75
.039	HV1313TC-3-.039-2K-*	.375	1.25	.039	HV1313TC-3-.039-3K-*	.437	1.75	.039	HV1313TC-3-.039-4K-*	.562	1.75
.047	HV1313TC-3-.047-2K-*	.359	1.50	.047	HV1313TC-3-.047-3K-*	.453	1.75	.047	HV1313TC-3-.047-4K-*	.515	2.25
.056	HV1313TC-3-.056-2K-*	.375	1.50	.056	HV1313TC-3-.056-3K-*	.468	1.75	.056	HV1313TC-3-.056-4K-*	.562	2.25
.068	HV1313TC-3-.068-2K-*	.406	1.50	.068	HV1313TC-3-.068-3K-*	.453	2.25	.068	HV1313TC-3-.068-4K-*	.608	2.25
.082	HV1313TC-3-.082-2K-*	.453	1.50	.082	HV1313TC-3-.082-3K-*	.484	2.25	.082	HV1313TC-3-.082-4K-*	.671	2.25
.1	HV1313TC-3-.1-2K-*	.500	1.50	.1	HV1313TC-3-.1-3K-*	.531	2.25	.1	HV1313TC-3-.1-4K-*	.734	2.25

* - Please insert appropriate tolerance code

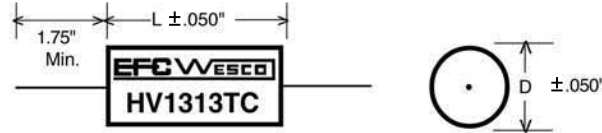


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HV1313TC Tubular Wrap & Fill

High Voltage Metallized Polyester Capacitors

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



Dimensions and Ratings

5000 VDC				6000 VDC				8000 VDC			
Cap.	Part #	D	L	Cap.	Part #	D	L	Cap.	Part #	D	L
.001	HV1313TC-3-.001-5K-*	.250	1.312	.001	HV1313TC-3-.001-6K-*	.250	1.312	.001	HV1313TC-3-.001-8K-*	.250	1.812
.0012	HV1313TC-3-.0012-5K-*	.250	1.312	.0012	HV1313TC-3-.0012-6K-*	.250	1.312	.0012	HV1313TC-3-.0012-8K-*	.265	1.812
.0015	HV1313TC-3-.0015-5K-*	.250	1.312	.0015	HV1313TC-3-.0015-6K-*	.265	1.312	.0015	HV1313TC-3-.0015-8K-*	.281	1.812
.0018	HV1313TC-3-.0018-5K-*	.250	1.312	.0018	HV1313TC-3-.0018-6K-*	.296	1.312	.0018	HV1313TC-3-.0018-8K-*	.296	1.812
.0022	HV1313TC-3-.0022-5K-*	.250	1.312	.0022	HV1313TC-3-.0022-6K-*	.312	1.312	.0022	HV1313TC-3-.0022-8K-*	.328	1.812
.0027	HV1313TC-3-.0027-5K-*	.282	1.312	.0027	HV1313TC-3-.0027-6K-*	.343	1.312	.0027	HV1313TC-3-.0027-8K-*	.375	1.812
.0033	HV1313TC-3-.0033-5K-*	.296	1.312	.0033	HV1313TC-3-.0033-6K-*	.375	1.312	.0033	HV1313TC-3-.0033-8K-*	.390	1.812
.0039	HV1313TC-3-.0039-5K-*	.312	1.312	.0039	HV1313TC-3-.0039-6K-*	.406	1.312	.0039	HV1313TC-3-.0039-8K-*	.437	1.812
.0047	HV1313TC-3-.0047-5K-*	.343	1.312	.0047	HV1313TC-3-.0047-6K-*	.343	1.687	.0047	HV1313TC-3-.0047-8K-*	.468	1.812
.0056	HV1313TC-3-.0056-5K-*	.375	1.312	.0056	HV1313TC-3-.0056-6K-*	.375	1.687	.0056	HV1313TC-3-.0056-8K-*	.500	1.812
.0068	HV1313TC-3-.0068-5K-*	.406	1.312	.0068	HV1313TC-3-.0068-6K-*	.406	1.687	.0068	HV1313TC-3-.0068-8K-*	.546	1.812
.0082	HV1313TC-3-.0082-5K-*	.343	1.687	.0082	HV1313TC-3-.0082-6K-*	.437	1.687	.0082	HV1313TC-3-.0082-8K-*	.484	2.312
.01	HV1313TC-3-.01-5K-*	.375	1.687	.01	HV1313TC-3-.01-6K-*	.484	1.687	.01	HV1313TC-3-.01-8K-*	.531	2.312
.012	HV1313TC-3-.012-5K-*	.406	1.687	.012	HV1313TC-3-.012-6K-*	.531	1.687	.012	HV1313TC-3-.012-8K-*	.562	2.312
.015	HV1313TC-3-.015-5K-*	.437	1.687	.015	HV1313TC-3-.015-6K-*	.578	1.687	.015	HV1313TC-3-.015-8K-*	.625	2.312
.018	HV1313TC-3-.018-5K-*	.500	1.687	.018	HV1313TC-3-.018-6K-*	.531	2.062	.018	HV1313TC-3-.018-8K-*	.687	2.312
.022	HV1313TC-3-.022-5K-*	.531	1.687	.022	HV1313TC-3-.022-6K-*	.578	2.062	.022	HV1313TC-3-.022-8K-*	.750	2.312
.027	HV1313TC-3-.027-5K-*	.578	1.687	.027	HV1313TC-3-.027-6K-*	.640	2.062	.027	HV1313TC-3-.027-8K-*	.875	2.312
.033	HV1313TC-3-.033-5K-*	.531	2.062	.033	HV1313TC-3-.033-6K-*	.703	2.062	.033	HV1313TC-3-.033-8K-*	.906	2.312
.039	HV1313TC-3-.039-5K-*	.593	2.062	.039	HV1313TC-3-.039-6K-*	.796	2.062	.039	HV1313TC-3-.039-8K-*	.843	2.812
.047	HV1313TC-3-.047-5K-*	.625	2.062	.047	HV1313TC-3-.047-6K-*	.828	2.062	.047	HV1313TC-3-.047-8K-*	.921	2.812
.056	HV1313TC-3-.056-5K-*	.687	2.062	.056	HV1313TC-3-.056-6K-*	.906	2.062	.056	HV1313TC-3-.056-8K-*	1.000	2.812
.068	HV1313TC-3-.068-5K-*	.750	2.062	.068	HV1313TC-3-.068-6K-*	.875	2.437	.068	HV1313TC-3-.068-8K-*	1.125	2.812
.082	HV1313TC-3-.082-5K-*	.734	2.437	.082	HV1313TC-3-.082-6K-*	.953	2.437	.082	HV1313TC-3-.082-8K-*	1.250	2.812
.1	HV1313TC-3-.1-5K-*	.875	2.437	.1	HV1313TC-3-.1-6K-*	1.062	2.437	.1	HV1313TC-3-.1-8K-*	1.375	2.812

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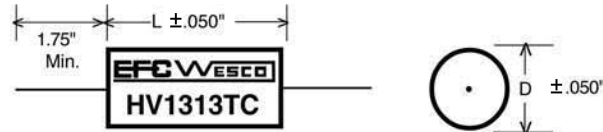


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HV1313TC Tubular Wrap & Fill

High Voltage Metallized Polyester Capacitors

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



Dimensions and Ratings

Cap.	10000 VDC		
μF	Part #	D	L
.001	HV1313TC-3-.001-10K-*	.281	2.00
.0012	HV1313TC-3-.0012-10K-*	.312	2.00
.0015	HV1313TC-3-.0015-10K-*	.328	2.00
.0018	HV1313TC-3-.0018-10K-*	.359	2.00
.0022	HV1313TC-3-.0022-10K-*	.387	2.00
.0027	HV1313TC-3-.0027-10K-*	.437	2.00
.0033	HV1313TC-3-.0033-10K-*	.468	2.00
.0039	HV1313TC-3-.0039-10K-*	.515	2.00
.0047	HV1313TC-3-.0047-10K-*	.562	2.00
.0056	HV1313TC-3-.0056-10K-*	.608	2.00
.0068	HV1313TC-3-.0068-10K-*	.671	2.00
.0082	HV1313TC-3-.0082-10K-*	.734	2.00
.01	HV1313TC-3-.01-10K-*	.796	2.00
.012	HV1313TC-3-.012-10K-*	.875	2.00
.015	HV1313TC-3-.015-10K-*	.750	2.625
.018	HV1313TC-3-.018-10K-*	.796	2.625
.022	HV1313TC-3-.022-10K-*	.875	2.625
.027	HV1313TC-3-.027-10K-*	.968	2.625
.033	HV1313TC-3-.033-10K-*	1.062	2.625

Cap.	15000 VDC		
μF	Part #	D	L
.001	HV1313TC-3-.001-15K-*	.453	2.375
.0012	HV1313TC-3-.0012-15K-*	.468	2.375
.0015	HV1313TC-3-.0015-15K-*	.531	2.375
.0018	HV1313TC-3-.0018-15K-*	.578	2.375
.0022	HV1313TC-3-.0022-15K-*	.658	2.375
.0027	HV1313TC-3-.0027-15K-*	.703	2.375
.0033	HV1313TC-3-.0033-15K-*	.562	3.00
.0039	HV1313TC-3-.0039-15K-*	.609	3.00
.0047	HV1313TC-3-.0047-15K-*	.656	3.00
.0056	HV1313TC-3-.0056-15K-*	.716	3.00
.0068	HV1313TC-3-.0068-15K-*	.781	3.00
.0082	HV1313TC-3-.0082-15K-*	.859	3.00
.01	HV1313TC-3-.01-15K-*	.937	3.00
.012	HV1313TC-3-.012-15K-*	1.031	3.00
.015	HV1313TC-3-.015-15K-*	1.156	3.00

* - Please insert appropriate tolerance code