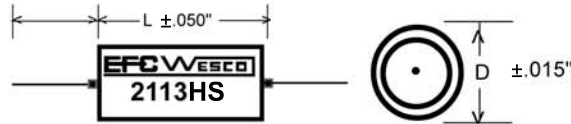


**2113HS**
Hermetically Sealed**Metallized
Polyphenylene
Sulfide Capacitors****Lead Spec.**
Tinned Copper
#24 AWG (.020) - .195" dia
#22 AWG (.025) - .235 & .312
#20 AWG (.031) - .400" dia & up**Dielectric Withstanding Voltage:**

200% of rated voltage applied through a minimum limiting resistance of 100 Ohms/volt. Duration of voltage stress shall be 15 seconds minimum and 1 minute maximum at 25°C.

Temperature Range:

-55°C to +125°C with full rated voltage applied.

Insulation Resistance:

At 25°C after 2 minutes of electrification at rated voltage or 500 VDC, whichever is less, the minimum product of Insulation Resistance and Capacitance shall be 50,000 megohms-microfarads, but need not exceed 50,000 megohms.

Dissipation Factor:

Shall not exceed 0.3% when measured at 25°C and 1000Hz, ±20 Hz.

Capacitance and Tolerance:

Shall be measured within the tolerance limits specified. Measurements will be made at 25°C and 1000 Hz, ±20 Hz.

Life Test:

Shall withstand 140% of rated voltage at 85°C for 250 hours. One failure in twelve shall be permitted. Failure is described as catastrophic (open or short).

Capacitance Stability (Drift):

Less than 0.3% when measured in the following manner: three capacitance readings at 25°C, each made prior to and after temperature cycling from room to 85°C, and room to -55°C. The mathematical difference between the two extremes, divided by intermediate value, and then multiplied by 100, yields the stability expressed in percent.

Humidity Resistance:

Capable of meeting requirements of MIL-PRF-19978L and MIL-PRF-39022J when tested in accordance with Method 106 of MIL-STD-202.

Lead Pull and Bend Test:

Steady pull of 5 pounds axially to leads for one minute. Bend test shall consist of one bend from the point of egress, first 90° in one direction, back to the original axial position, and then 90° in the opposite direction with no evidence of breakage.

Features:

Hermetically sealed. Low dissipation factor. Extended foil design. Excellent stability. Quality control procedures per ISO 9001-2015.

Applications:

Data processing equipment, aircraft and missile systems, industrial instrumentation, navigation and distance measuring equipment, communications equipment.

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



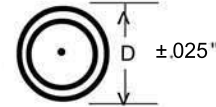
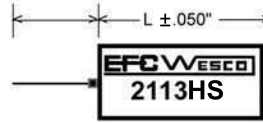
Please consult factory for special requirements, including non-standard values and sizes

2113HS
Hermetically Sealed

**Metallized
Polyphenylene
Sulfide Capacitors**

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Tinned Copper
#24 AWG (.020) - .195" dia
#22 AWG (.025) - .235 & .312
#20 AWG (.031) - .400" dia & up

**Dimensions
and Ratings**



Cap.		50 VDC	
µF	Part #	D	L
.001	2113HS-3-.001-0-*	.175	.562
.0012	2113HS-3-.0012-0-*	.175	.562
.0015	2113HS-3-.0015-0-*	.175	.562
.0022	2113HS-3-.0022-0-*	.175	.562
.0027	2113HS-3-.0027-0-*	.175	.562
.0039	2113HS-3-.0039-0-*	.175	.562
.0047	2113HS-3-.0047-0-*	.175	.562
.0056	2113HS-3-.0056-0-*	.175	.562
.0068	2113HS-3-.0068-0-*	.175	.562
.0082	2113HS-3-.0082-0-*	.175	.562
.01	2113HS-3-.01-0-*	.195	.562
.012	2113HS-3-.012-0-*	.195	.562
.015	2113HS-3-.015-0-*	.195	.562
.018	2113HS-3-.018-0-*	.195	.562
.022	2113HS-3-.022-0-*	.195	.562
.027	2113HS-3-.027-0-*	.195	.562
.033	2113HS-3-.033-0-*	.195	.562
.039	2113HS-3-.039-0-*	.195	.562
.047	2113HS-3-.047-0-*	.195	.562
.056	2113HS-3-.056-0-*	.195	.562
.068	2113HS-3-.068-0-*	.195	.562
.082	2113HS-3-.082-0-*	.195	.562
.1	2113HS-3-.1-0-*	.195	.562
.12	2113HS-3-.12-0-*	.235	.562
.15	2113HS-3-.15-0-*	.312	.562
.18	2113HS-3-.18-0-*	.235	.687
.22	2113HS-3-.22-0-*	.235	.687
.27	2113HS-3-.27-0-*	.235	.687
.33	2113HS-3-.33-0-*	.312	.687
.39	2113HS-3-.39-0-*	.312	.687
.47	2113HS-3-.47-0-*	.312	.812
.56	2113HS-3-.56-0-*	.312	.812
.68	2113HS-3-.68-0-*	.312	.812
.82	2113HS-3-.82-0-*	.400	.812
1.0	2113HS-3-1.0-0-*	.400	.812
1.25	2113HS-3-1.25-0-*	.400	.812
1.5	2113HS-3-1.5-0-*	.400	.937
2.0	2113HS-3-2.0-0-*	.400	.937
3.0	2113HS-3-3.0-0-*	.400	.937
4.0	2113HS-3-4.0-0-*	.500	1.060
5.0	2113HS-3-5.0-0-*	.562	1.060
6.0	2113HS-3-6.0-0-*	.562	1.060
8.0	2113HS-3-8.0-0-*	.670	1.312
10.0	2113HS-3-10.0-0-*	.750	1.312
12.0	2113HS-3-12.0-0-*	.750	1.562
15.0	2113HS-3-15.0-0-*	.750	1.562
20.0	2113HS-3-20.0-0-*	.812	1.562

Cap.		100 VDC	
µF	Part #	D	L
.001	2113HS-3-.001-1-*	.175	.562
.0012	2113HS-3-.0012-1-*	.175	.562
.0015	2113HS-3-.0015-1-*	.175	.562
.0022	2113HS-3-.0022-1-*	.175	.562
.0027	2113HS-3-.0027-1-*	.175	.562
.0039	2113HS-3-.0039-1-*	.175	.562
.0047	2113HS-3-.0047-1-*	.195	.562
.0056	2113HS-3-.0056-1-*	.195	.562
.0068	2113HS-3-.0068-1-*	.195	.562
.0082	2113HS-3-.0082-1-*	.195	.562
.01	2113HS-3-.01-1-*	.195	.562
.012	2113HS-3-.012-1-*	.235	.562
.015	2113HS-3-.015-1-*	.235	.562
.018	2113HS-3-.018-1-*	.235	.562
.022	2113HS-3-.022-1-*	.235	.562
.027	2113HS-3-.027-1-*	.235	.562
.033	2113HS-3-.033-1-*	.235	.562
.039	2113HS-3-.039-1-*	.235	.562
.047	2113HS-3-.047-1-*	.312	.562
.056	2113HS-3-.056-1-*	.312	.562
.068	2113HS-3-.068-1-*	.235	.687
.082	2113HS-3-.082-1-*	.235	.687
.1	2113HS-3-.1-1-*	.312	.687
.12	2113HS-3-.12-1-*	.312	.687
.15	2113HS-3-.15-1-*	.312	.687
.18	2113HS-3-.18-1-*	.312	.812
.22	2113HS-3-.22-1-*	.312	.812
.27	2113HS-3-.27-1-*	.312	.812
.33	2113HS-3-.33-1-*	.400	.812
.39	2113HS-3-.39-1-*	.400	.812
.47	2113HS-3-.47-1-*	.400	.937
.56	2113HS-3-.56-1-*	.400	.937
.68	2113HS-3-.68-1-*	.500	.937
.82	2113HS-3-.82-1-*	.500	.937
1.0	2113HS-3-1.0-1-*	.500	.937
1.25	2113HS-3-1.25-1-*	.500	1.062
1.5	2113HS-3-1.5-1-*	.500	1.062
2.0	2113HS-3-2.0-1-*	.562	1.312
3.0	2113HS-3-3.0-1-*	.670	1.312
4.0	2113HS-3-4.0-1-*	.670	1.562
5.0	2113HS-3-5.0-1-*	.670	1.940
6.0	2113HS-3-6.0-1-*	1.000	2.168
8.0	2113HS-3-8.0-0-1-*	1.000	2.168

Cap.		200 VDC	
µF	Part #	D	L
.001	2113HS-3-.001-2-*	.235	.562
.0012	2113HS-3-.0012-2-*	.235	.562
.0015	2113HS-3-.0015-2-*	.235	.562
.0022	2113HS-3-.0022-2-*	.235	.562
.0027	2113HS-3-.0027-2-*	.235	.562
.0039	2113HS-3-.0039-2-*	.235	.562
.0047	2113HS-3-.0047-2-*	.235	.562
.0056	2113HS-3-.0056-2-*	.235	.562
.0068	2113HS-3-.0068-2-*	.235	.562
.0082	2113HS-3-.0082-2-*	.235	.562
.01	2113HS-3-.01-2-*	.235	.562
.012	2113HS-3-.012-2-*	.235	.562
.015	2113HS-3-.015-2-*	.312	.562
.018	2113HS-3-.018-2-*	.312	.562
.022	2113HS-3-.022-2-*	.312	.562
.027	2113HS-3-.027-2-*	.235	.687
.033	2113HS-3-.033-2-*	.312	.687
.039	2113HS-3-.039-2-*	.312	.687
.047	2113HS-3-.047-2-*	.312	.687
.056	2113HS-3-.056-2-*	.312	.687
.068	2113HS-3-.068-2-*	.312	.687
.082	2113HS-3-.082-2-*	.312	.812
.1	2113HS-3-.1-2-*	.312	.812
.12	2113HS-3-.12-2-*	.312	.812
.15	2113HS-3-.15-2-*	.400	.812
.18	2113HS-3-.18-2-*	.400	.812
.22	2113HS-3-.22-2-*	.400	.937
.27	2113HS-3-.27-2-*	.400	.937
.33	2113HS-3-.33-2-*	.400	.937
.39	2113HS-3-.39-2-*	.500	.937
.47	2113HS-3-.47-2-*	.500	.906
.56	2113HS-3-.56-2-*	.500	1.062
.68	2113HS-3-.68-2-*	.500	1.062
.82	2113HS-3-.82-2-*	.500	1.062
1.0	2113HS-3-1.0-2-*	.562	1.062
1.25	2113HS-3-1.25-2-*	.562	1.312
1.5	2113HS-3-1.5-2-*	.562	1.312
2.0	2113HS-3-2.0-2-*	.670	1.312
3.0	2113HS-3-3.0-2-*	.670	1.312
4.0	2113HS-3-4.0-2-*	.750	1.562
5.0	2113HS-3-5.0-2-*	1.000	1.562
6.0	2113HS-3-6.0-2-*	1.000	1.964
8.0	2113HS-3-8.0-0-2-*	1.000	2.187
10.0	2113HS-3-10.0-2-*	1.000	2.187

* - Please insert appropriate tolerance code -- All 2113HS sizes include insulating sleeve.