

7/16 F/F Coaxial RF Surge Protector, 100MHz - 512MHz, DC Block, 750W, IP67, .5uJ, 20kA, Filter, Bracket Down, Hole Mount



## VHF50HD

### Features

- Surge current of 20kA
- Max Power 750W
- Frequency range from 100 to 512 MHz VHF Band
- DIN-type Female connectors
- VSWR 1.1:1
- Waterproof IP67 rated
- DC Block
- Multi-strike capability
- CE & RoHS compliant

### Applications

- Emergency response systems
- Public safety systems

### Description

RF filter (also known as lightning arrester or surge arrester) VHF50HD from PolyPhaser, integrating a patented inductor designed for lightning surges and a RF blocking capacitor. This RF surge protector component is manufactured in a coaxial in-line design with wide operating frequency range. All PolyPhaser RF surge protector products are available in stock with same day shipping

### Electrical Specifications

Surge Protector Type  
DC Handling

Surge Filter  
DC Block

Description	Minimum	Typical	Maximum	Units
Frequency Range	100		512	MHz
Impedance		50		Ohms
VSWR			1.1:1	
Insertion Loss			0.1	dB
Input Power, CW			750	Watts
Surge Current IEC 61000-4-5 8/20µs waveform			20	kA
Throughput Energy for 3kA @ 8/20µs waveform			500	nJ

### Mechanical Specifications

#### Size

Length 4.21 in [106.93 mm]  
Width/Diameter 3.01 in [76.45 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[7/16 F/F Coaxial RF Surge Protector, 100MHz - 512MHz, DC Block, 750W, IP67, .5uJ, 20kA, Filter, Bracket Down, Hole Mount VHF50HD](#)

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## VHF50HD

Height	1.66 in [42.16 mm]
Weight	1.075 lbs [487.61 g]
<b>Configuration</b>	
Input Connector	7/16 DIN Female
Output Connector	7/16 DIN Female

### Environmental Specifications

<b>Temperature</b>	
Operating Range	-50 to +85 deg C
Storage Range	-50 to +85 deg C
Ingress Protection (IP) Rating	IP67
Humidity	95%

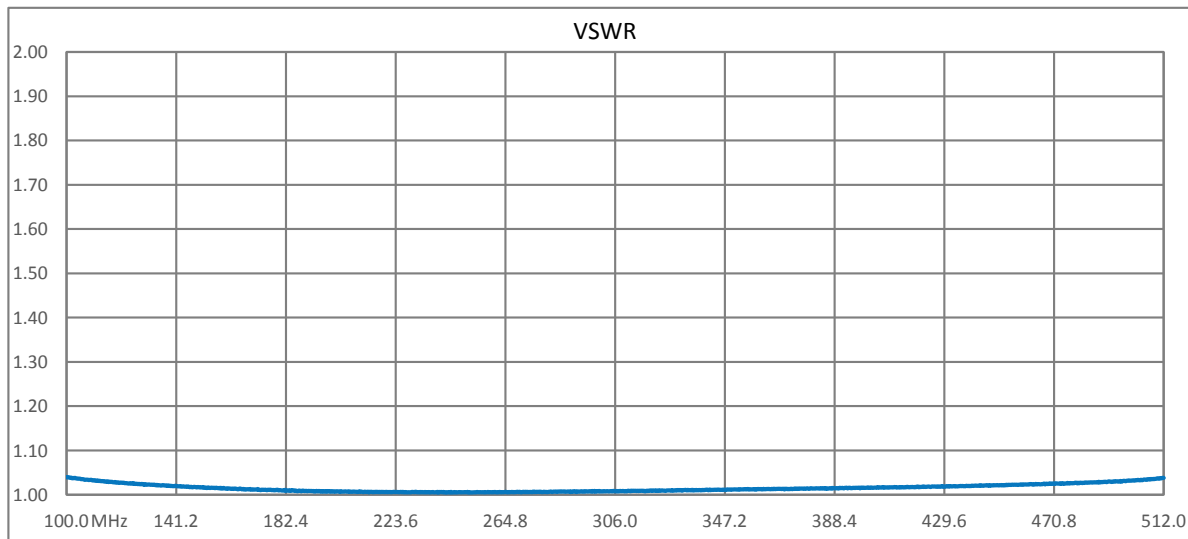
### Compliance Certifications

CE Compliant	Yes
Certifications	NOM

### Plotted and Other Data

Notes:

### Typical Performance Data

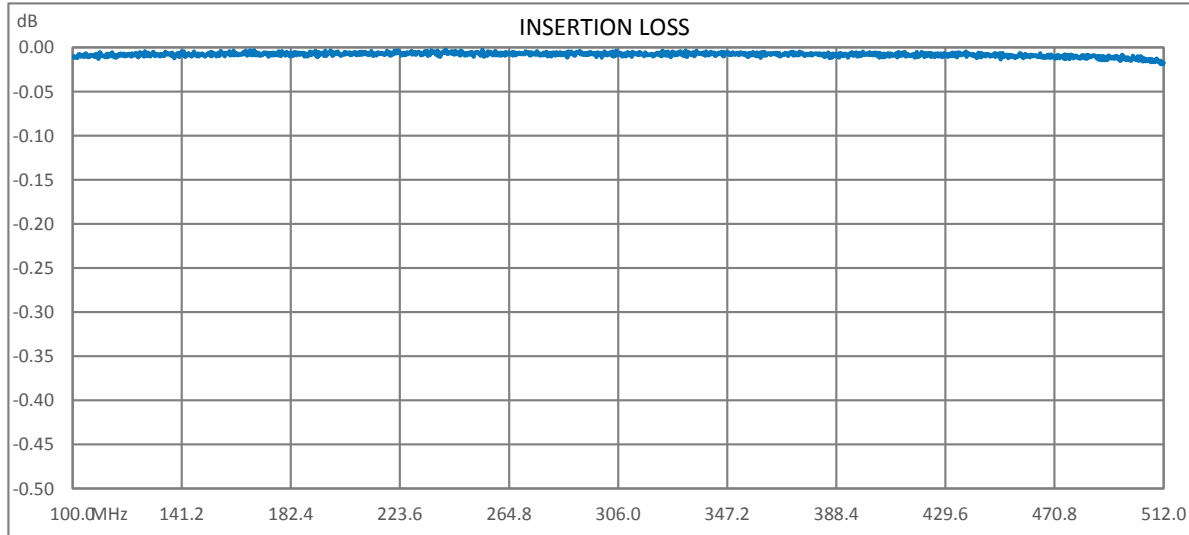


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**VHF50HD**



PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, DC Pass and Ultra Low PIM. Backed by responsive service and expert technical support PolyPhaser continually expands its product offering and services to serve engineers' urgent needs for RF components in mission critical communication networks.

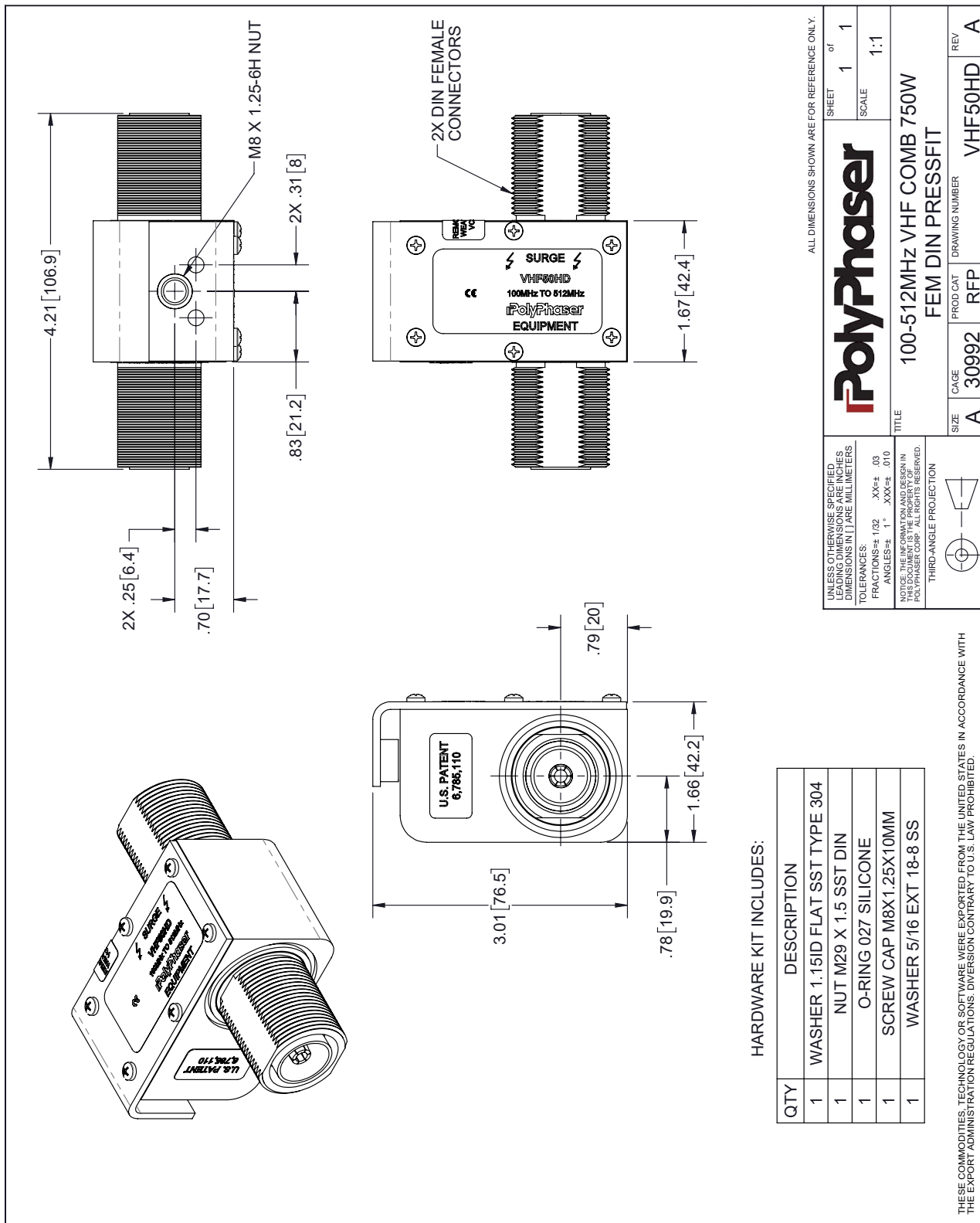
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The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. PolyPhaser reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. PolyPhaser does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and PolyPhaser does not assume any liability arising out of the use of any part or documentation.

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VHF50HD CAD Drawing



ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

**PolyPhaser**

SHEET 1 of 1  
SCALE 1:1

TITLE 100-512MHZ VHF COMB 750W  
FEM DIN PRESSFIT

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS  
TOLERANCES: FRACTIONS ± 1/32 .XXF ± .03 ANGLES ± 1° .XXX ± .010  
THIRD-ANGLE PROJECTION

SIZE A CAGE 30992 PROD CAT RFP DRAWING NUMBER VHF50HD REV A

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