

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<br>DC Handling            |         | Surge Filter<br>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<br>IEC 61000-4-5 8/20μs waveform |         |                          | 20      | kA    |
| Throughput Energy<br>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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|        |                      |
|--------|----------------------|
| Height | 1.66 in [42.16 mm]   |
| Weight | 1.075 lbs [487.61 g] |

### Configuration

|                  |                 |
|------------------|-----------------|
| Input Connector  | 7/16 DIN Female |
| Output Connector | 7/16 DIN Female |

## Environmental Specifications

### Temperature

|                 |                  |
|-----------------|------------------|
| Operating Range | -50 to +85 deg C |
| Storage Range   | -50 to +85 deg C |

|                                |      |
|--------------------------------|------|
| Ingress Protection (IP) Rating | IP67 |
| Humidity                       | 95%  |

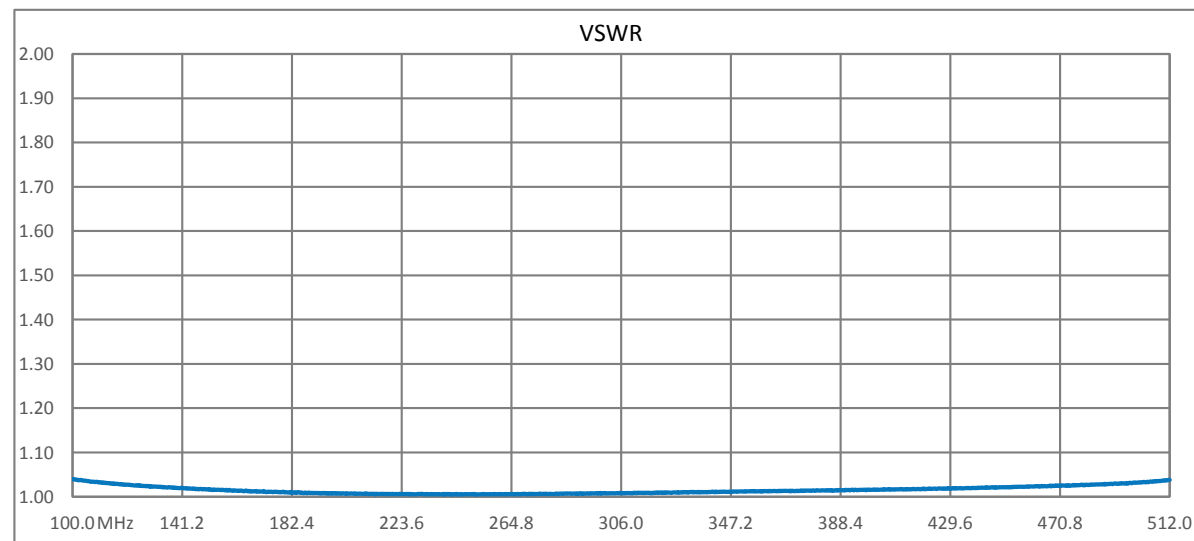
## Compliance Certifications

|                |     |
|----------------|-----|
| CE Compliant   | Yes |
| Certifications | NOM |

## Plotted and Other Data

Notes:

## Typical Performance Data

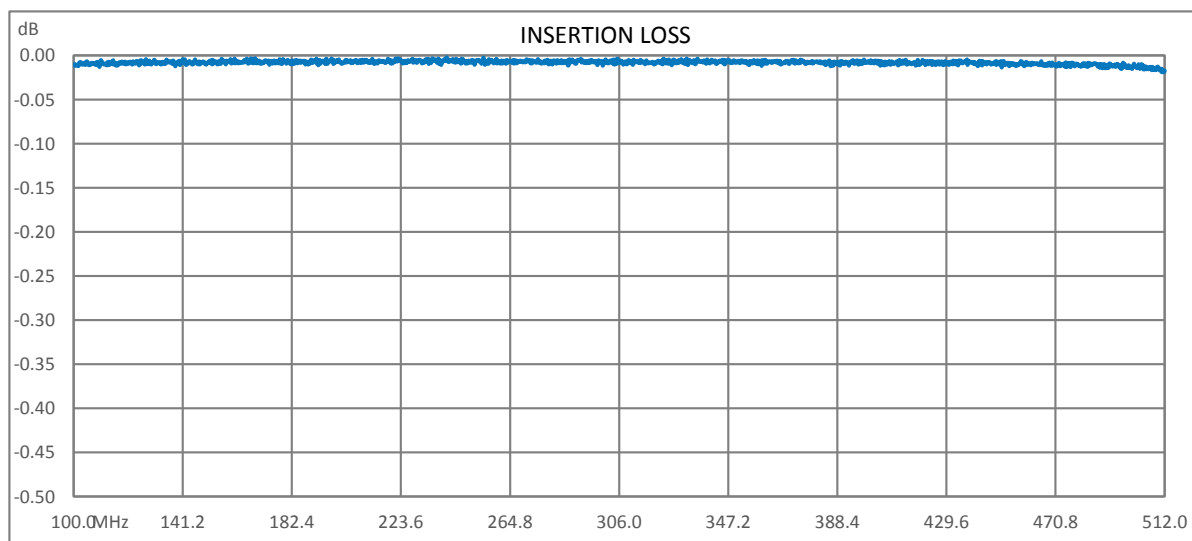


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## VHF50HD



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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## VHF50HD CAD Drawing

