

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



VHF50HN-MA

Features

- Surge current of 20kA
- Max Power 750W
- Frequency range from 100 to 512 MHz VHF Band
- N Male to N 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) VHF50HN-MA 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 | 3.28 in [83.31 mm] |
| Weight | 0.65 lbs [294.84 g] |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
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Configuration

| | |
|------------------|----------|
| Input Connector | N Male |
| Output Connector | N Female |

Environmental Specifications

Temperature

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

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

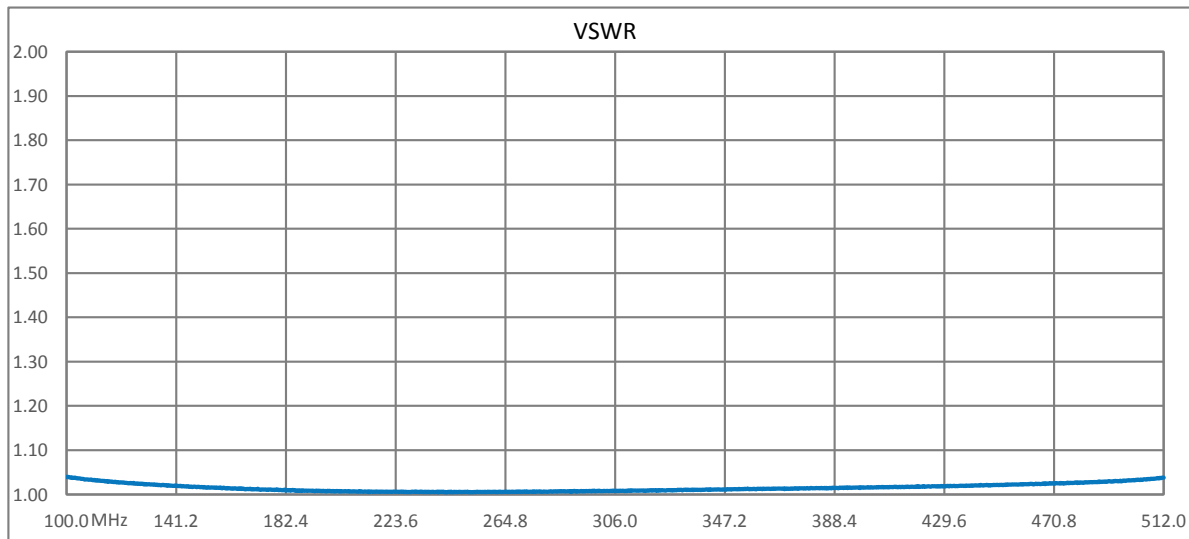
Compliance Certifications

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

Plotted and Other Data

Notes:

Typical Performance Data

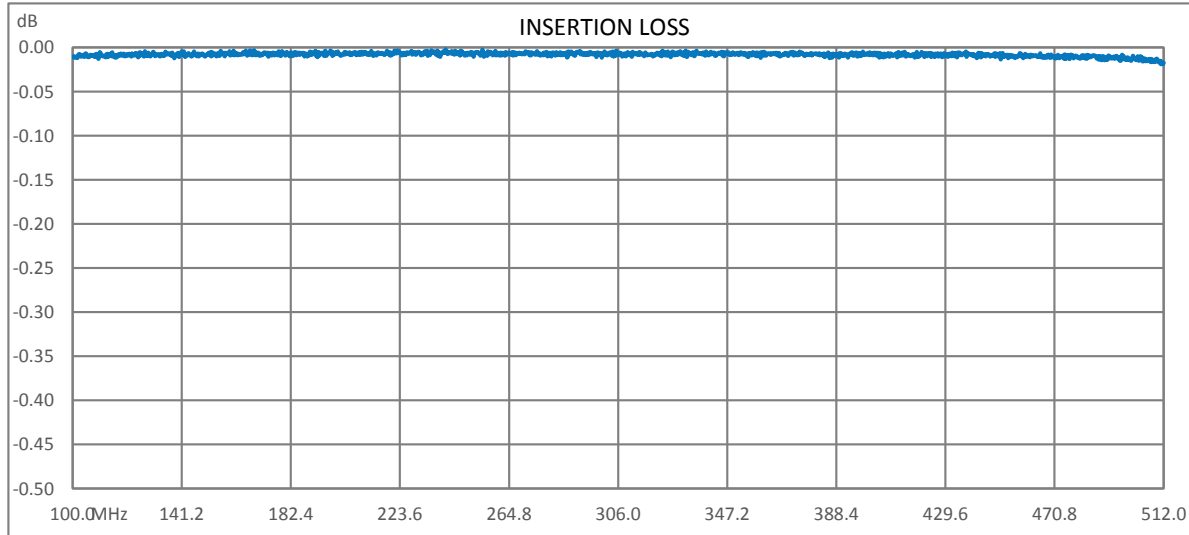


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PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, 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.

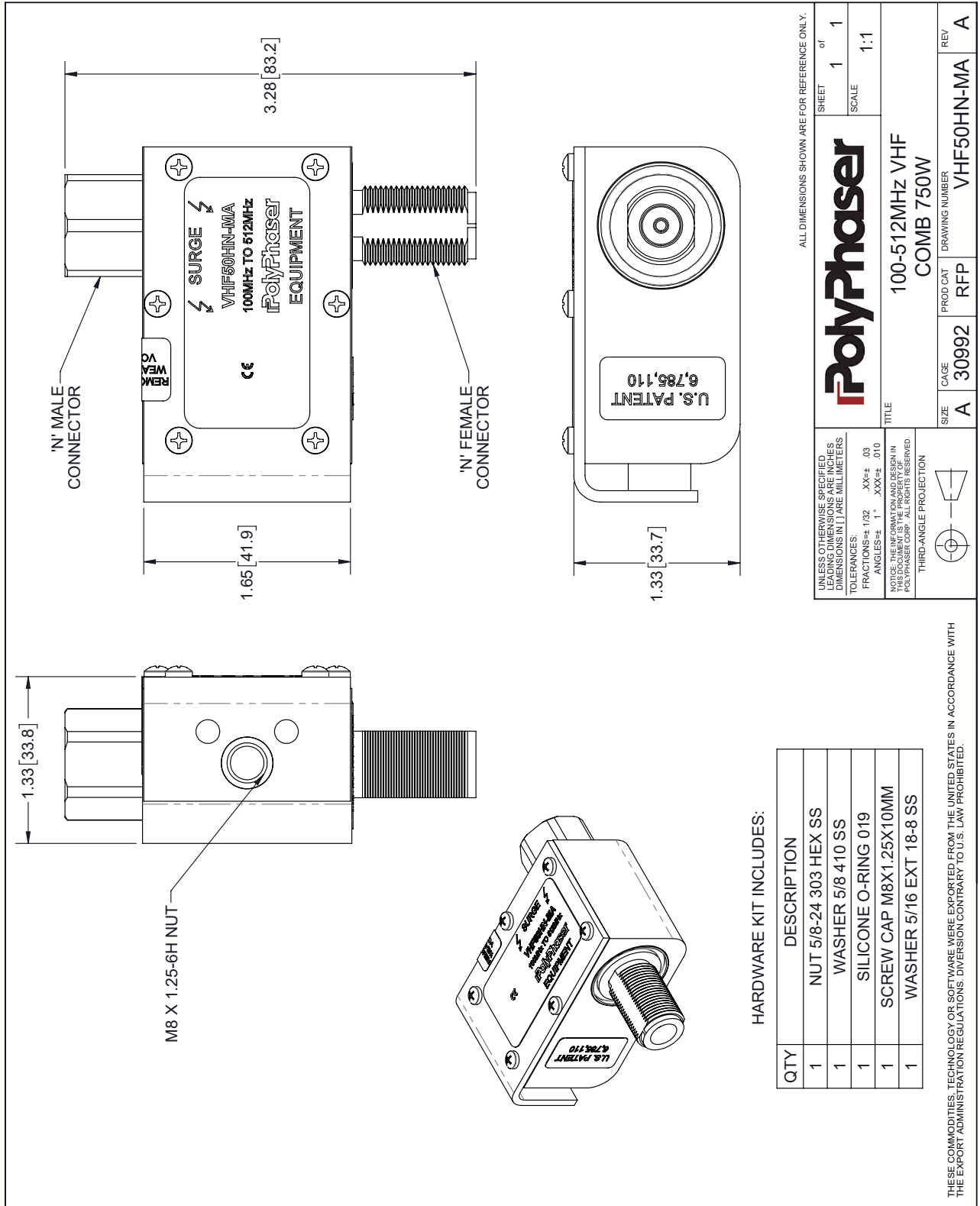
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URL: <https://www.polyphaser.com/type-n-surge-protector-512mhz-filter-vhf50hn-ma-p.aspx>

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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VHF50HN-MA CAD Drawing



ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

| | | |
|---|---------------------------------|---------------------|
| <p>UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS</p> <p>TOLERANCES: FRACTIONS ± 1/32 .XXF ± .03 ANGLES ± 1° .XXX ± .010</p> <p>NOTE: THE INFORMATION AND DESIGN IN THIS DRAWING IS THE PROPERTY OF POLYPHASER CORP. ALL RIGHTS RESERVED.</p> <p>THIRD-ANGLE PROJECTION</p> | <p>PolyPhaser</p> | <p>SHEET 1 of 1</p> |
| | <p>100-512MHz VHF COMB 750W</p> | <p>SCALE 1:1</p> |
| <p>SIZE A</p> | <p>CAGE 30992</p> | <p>PROD CAT RFP</p> |
| <p>DRAWING NUMBER VHF50HN-MA</p> | <p>REV A</p> | |

HARDWARE KIT INCLUDES:

| QTY | DESCRIPTION |
|-----|-------------------------|
| 1 | NUT 5/8-24 303 HEX SS |
| 1 | WASHER 5/8 410 SS |
| 1 | SILICONE O-RING 019 |
| 1 | SCREW CAP M8X1.25X10MM |
| 1 | WASHER 5/16 EXT 18-8 SS |

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