

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]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[Type N M/F Coaxial RF Surge Protector, 100MHz - 512MHz, DC Block, 750W, IP67, .5uJ, 20kA, Filter, Bracket Down, Hole Mount VHF50HN-MA](#)

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### Configuration

Input Connector	N Male
Output Connector	N Female

### Environmental Specifications

#### Temperature

Operating Range	-50 to 85 deg C
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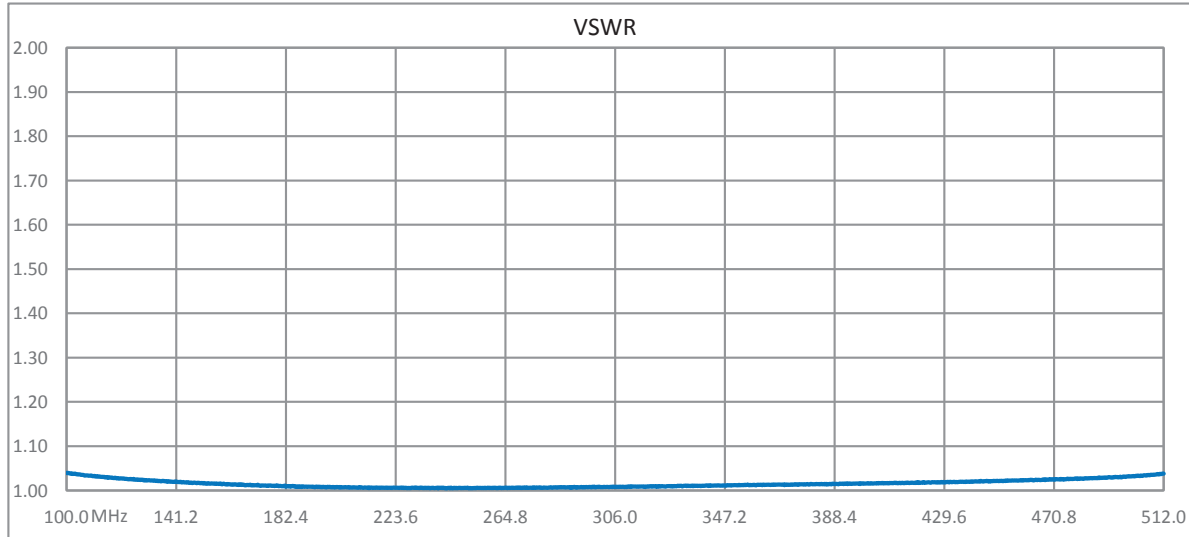
Ingress Protection (IP) Rating	IP67
Humidity	95%

### Compliance Certifications (see [product page](#) for current document)

### Plotted and Other Data

Notes:

### Typical Performance Data



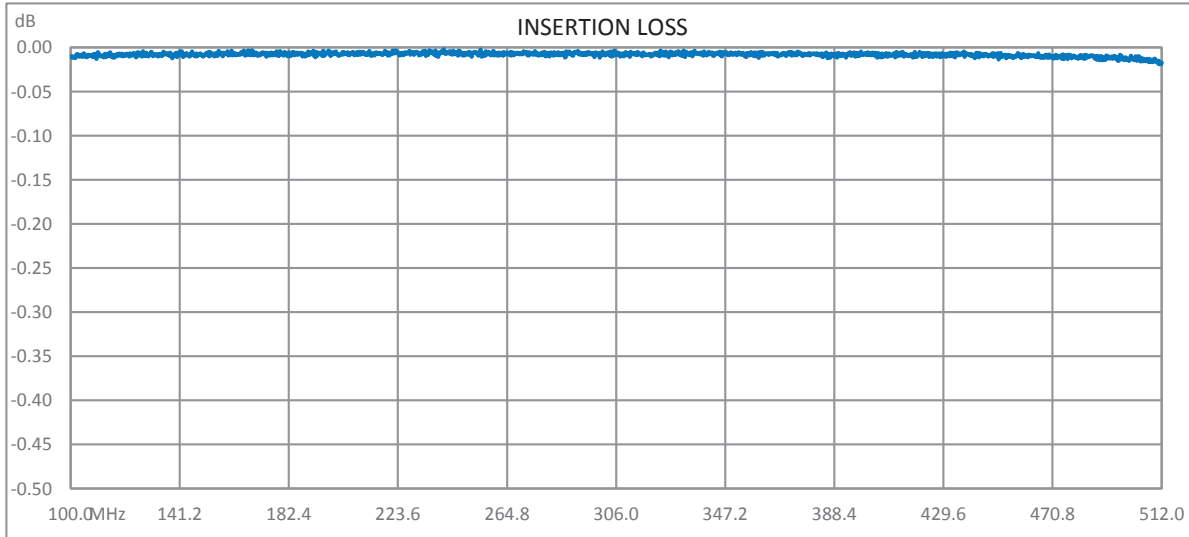
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PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block,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

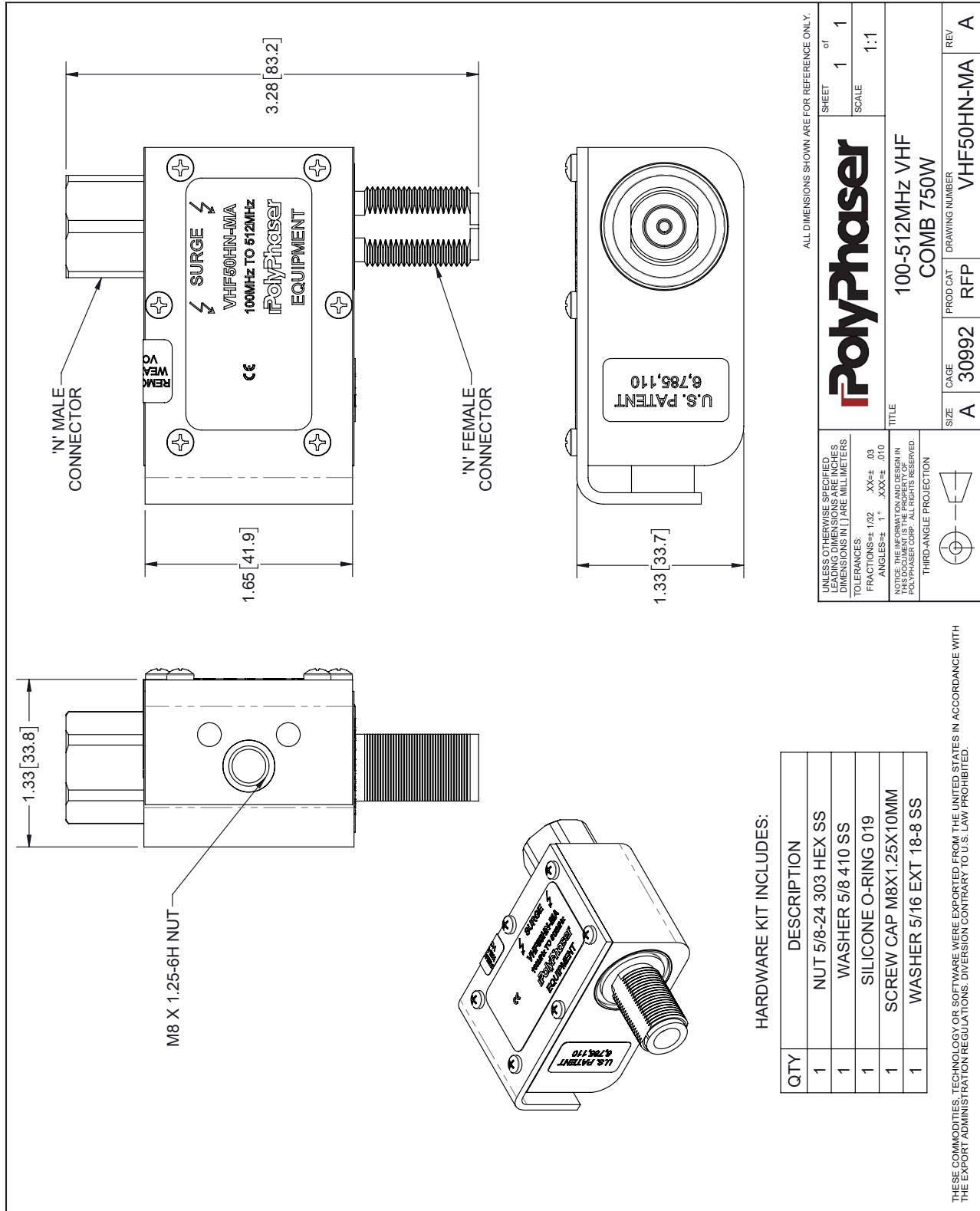
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URL: <https://www.polyphaser.com/type-n-surge-protector-512mhz-filter-vhf50hn-ma>

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VHF50HN-MA CAD Drawing



ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

<b>PolyPhaser</b>		SHEET	1	of	1
		SCALE	1:1		
TITLE		100-512MHz VHF COMB 750W			
SIZE	CAGE	PROD CAT	RFP	DRAWING NUMBER	REV
A	30992			VHF50HN-MA	A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS  
 TOLERANCES: FRACTIONS± 1/32 .XXF± .03 ANGLES± 1° .XXX± .010  
 NOTE: THE INFORMATION AND DESIGN IN THIS DRAWING IS THE PROPERTY OF POLYPHASER CORP. ALL RIGHTS RESERVED.  
 THIRD-ANGLE PROJECTION

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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