![PolyPhaser — an INFINITE brand]

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

VHF50HN

Features

- Surge current of 20kA
- Max Power 750W
- Frequency range from 100 to 512 MHz VHF Band
- N-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 arrestor) VHF50HN 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   Surge Filter
DC Handling   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   3.65 in [92.71 mm]
Width/Diameter   1.4 in [35.56 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 F/F Coaxial RF Surge Protector, 100MHz - 512MHz, DC Block, 750W, IP67, .5uJ, 20kA, Filter, Bracket Down, Hole Mount VHF50HN

+1 800 882 9110 | PolyPhaser.com

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VHF50HN

Height	2.82 in [71.63 mm]
Weight	0.63125 lbs [286.33 g]

Configuration

Input Connector	N Female
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

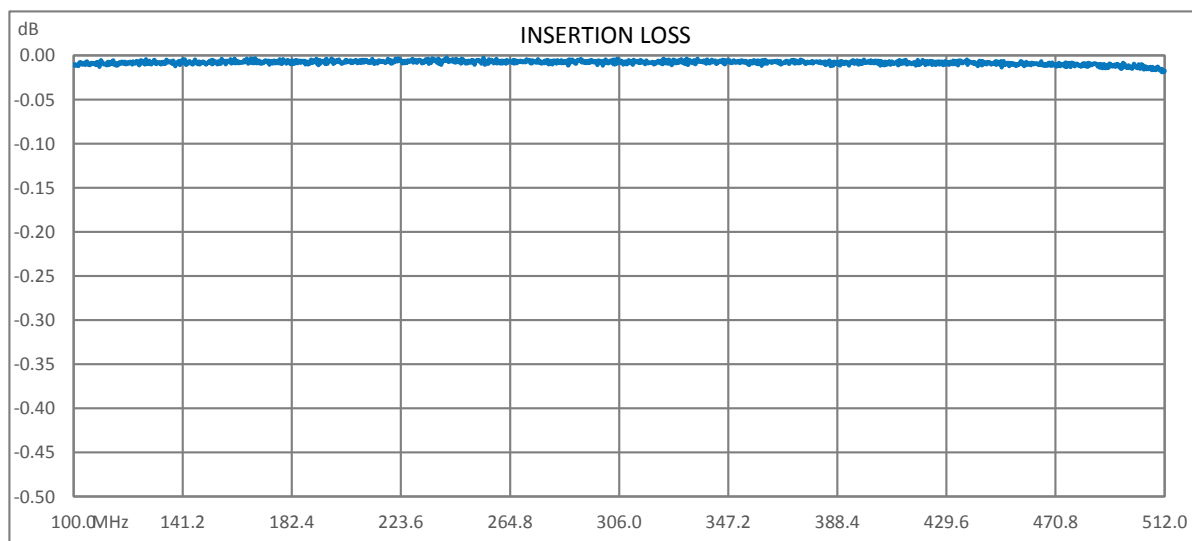## Plotted and Other Data

Notes:

Typical Performance Data
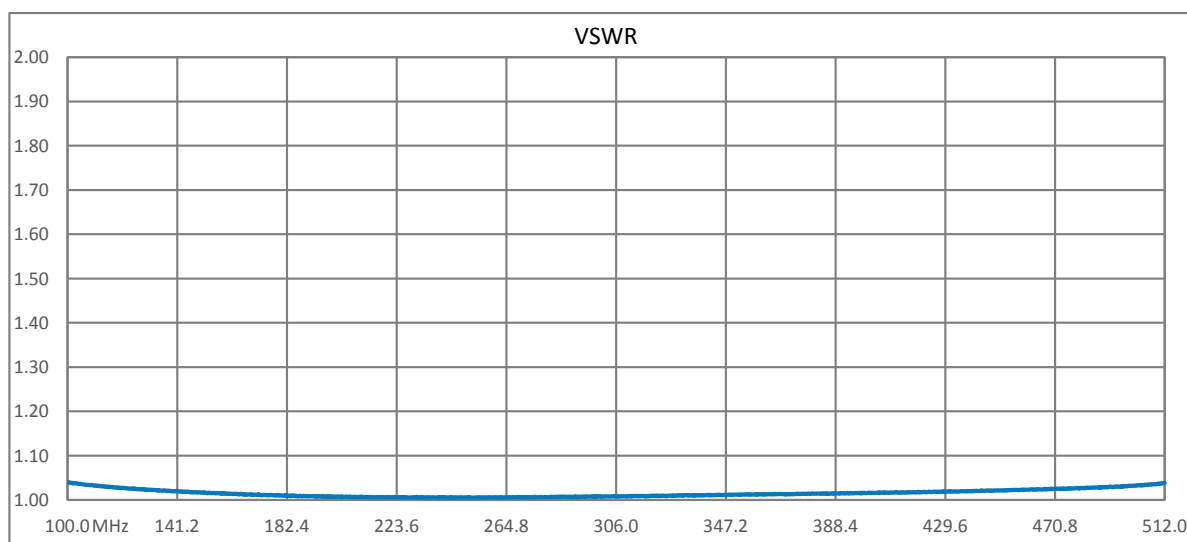
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VHF50HN

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-p.aspx

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

VHF50HN CAD Drawing

2X N FEMALE CONNECTOR

1.67 [42.4]

1.33 [33.7]

U.S. PATENT 6,785,110

3.65 [92.7]

.25 [6.4]

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SHEET 1 of 1

SCALE 2:3

REV A

PolyPhaser

100-512MHz VHF COMB 750W

DRAWING NUMBER VHF50HN

PROD CAT RFP

CAGE 30992

SIZE A

TITLE

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS

TOLERANCES:
FRACTIONS=± 1/32   XX=± .03
ANGLES=± 1°   XXX=± .010

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THIRD-ANGLE PROJECTION

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