

Type N F/M Coaxial RF Surge Protector, 50MHz - 700MHz, DC Block, 500W, 1mJ, 50kA, Blocking Cap, Bracket Up, Hole Mount



IS-B50HN-C1-ME

Features

- Surge current of 50kA
- Max Power 500W
- Frequency range from 50 MHz to 700 MHz
- N Female to N Male connectors
- VSWR 1.2:1
- Multi-strike capability
- CE & RoHS compliant

Applications

- HF, UHF and VHF radios
- Ham radios
- Remote industrial monitoring

Description

RF surge protector (also known as lightning arrester or surge arrester) IS-B50HN-C1-ME from PolyPhaser, integrating a RF blocking capacitor with a gas tube (GT or GDT). 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

Blocking Cap and Gas Tube
DC Block

Description	Minimum	Typical	Maximum	Units
Frequency Range	50		700	MHz
Impedance		50		Ohms
VSWR		1.1:1	1.2:1	
Insertion Loss			0.1	dB
Input Power, CW			500	Watts
500W @ VHF Band				
250W @ UHF Band				
Surge Current			50	kA
Turn On Voltage		1,200 ±20%		Volts
Throughput Energy			1	mJ
for 6kA/3kA 8/20µs waveform				

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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Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.05 to 0.06	0.06 to 0.7				GHz
VSWR, Typ	1.2:1	1.1:1				

Mechanical Specifications

Height 2.25 in [57.15 mm]

Configuration

Input Connector N Female
Output Connector N Male

Environmental Specifications

Temperature

Operating Range -45 to 50 deg C
Storage Range -45 to +85 deg C

Ingress Protection (IP) Rating None
Vibration 1G at 5Hz to 100Hz

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

Plotted and Other Data

Notes:

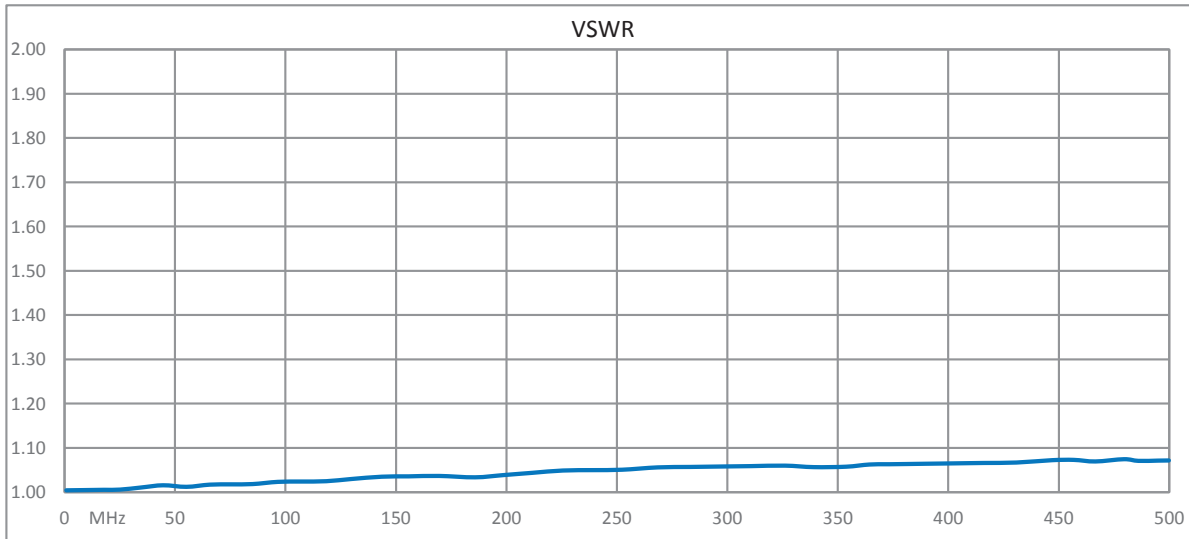
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Typical Performance Data

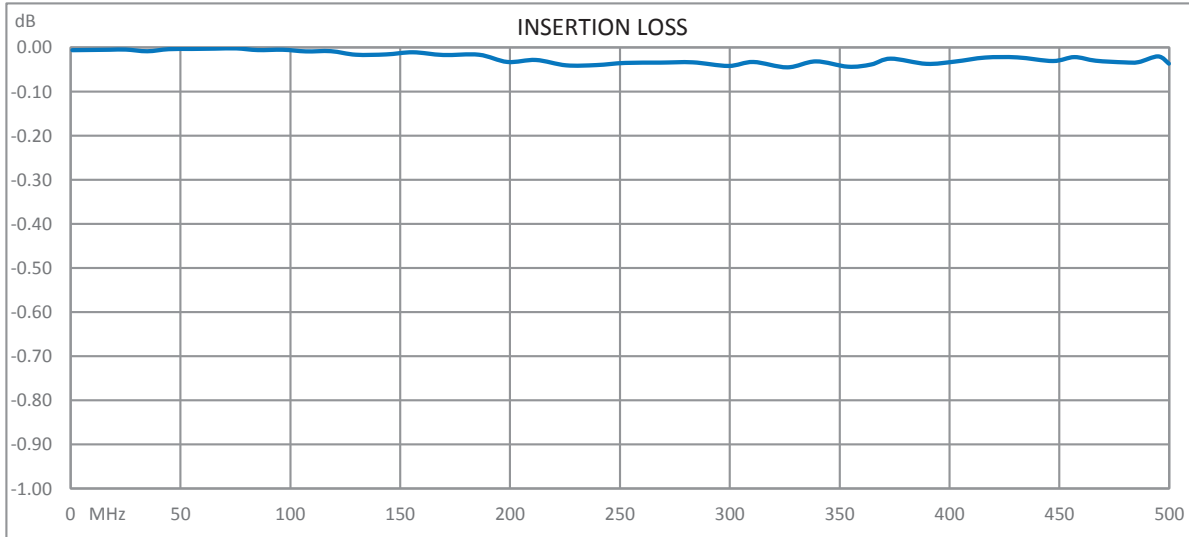


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PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, 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-blocking-cap-gas-tube-is-b50hn-c1-me>

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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IS-B50HN-C1-ME CAD Drawing

