

Type N F/F Bulkhead Coaxial RF Surge Protector, 10MHz - 1GHz,  
DC Block, 1.5kW, 3.5mJ, 20kA, Blocking Cap, Hole Mount



## IS-B50LN-C0

### Features

- Surge current of 20kA
- Max Power 1.5kW
- Frequency range from 10 MHz to 1000 MHz
- N Female to N Female connectors
- VSWR <1.1:1
- 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-B50LN-C0 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	10		1,000	MHz
Impedance		50		Ohms
VSWR			1.1:1	
Insertion Loss			0.1	dB
Input Power, CW			1.5	kWatts
1.5kW @ 10 to 50MHz				
375W @ 50 to 220MHz				
125W @ 220 to 700MHz				
50W @ 700 to 1000MHz				
Surge Current			20	kA
IEC 61000-4-5 8/20µs WAVEFORM				
Turn On Voltage		600 ±20%		Volts
Throughput Energy			3.5	mJ
@ 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:  
[Type N F/F Bulkhead Coaxial RF Surge Protector, 10MHz - 1GHz, DC Block, 1.5kW, 3.5mJ, 20kA, Blocking Cap, Hole Mount IS-B50LN-C0](#)

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### Mechanical Specifications

#### Size

Length	2.72 in [69.09 mm]
Width/Diameter	1 in [25.4 mm]
Height	2.25 in [57.15 mm]

#### Configuration

Input Connector	N Female
Output Connector	N Female

### Environmental Specifications

#### Temperature

Operating Range	-50 to 50 deg C
Storage Range	-55 to +85 deg C

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

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

### Plotted and Other Data

Notes:

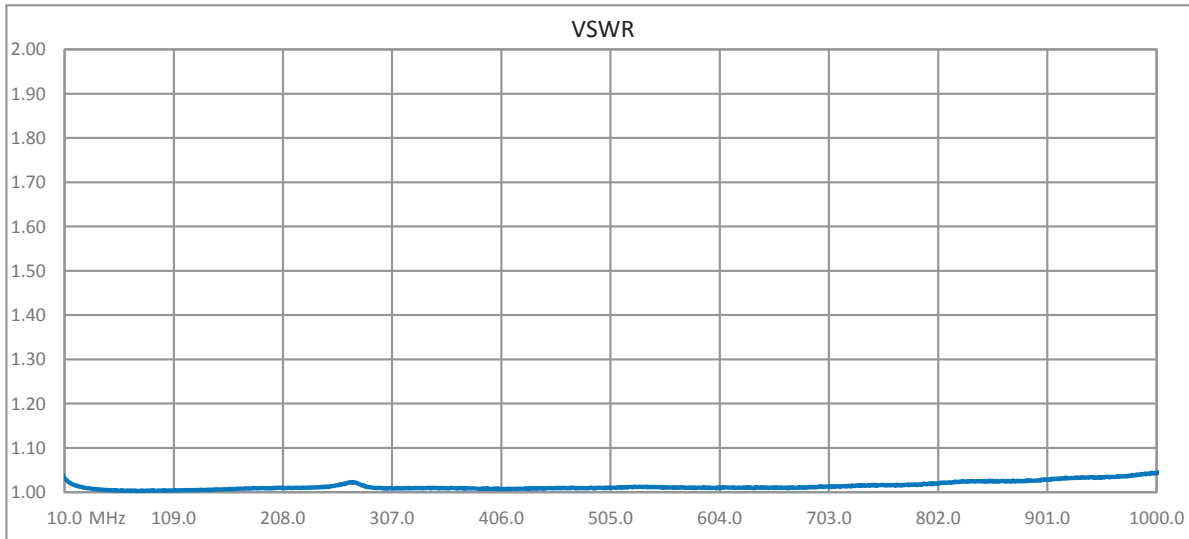
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
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### Typical Performance Data



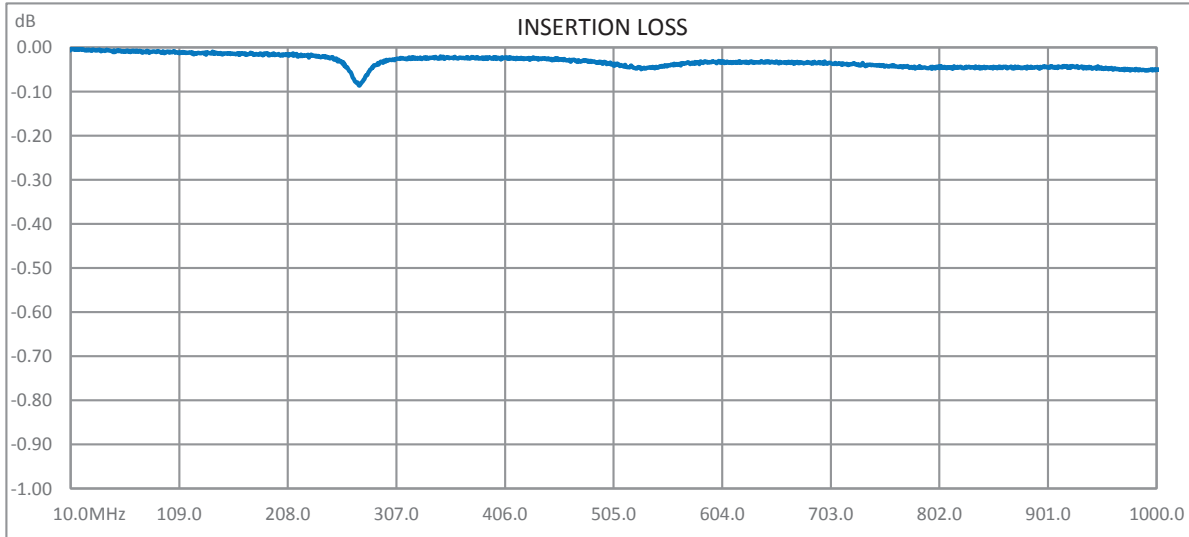
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PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block,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

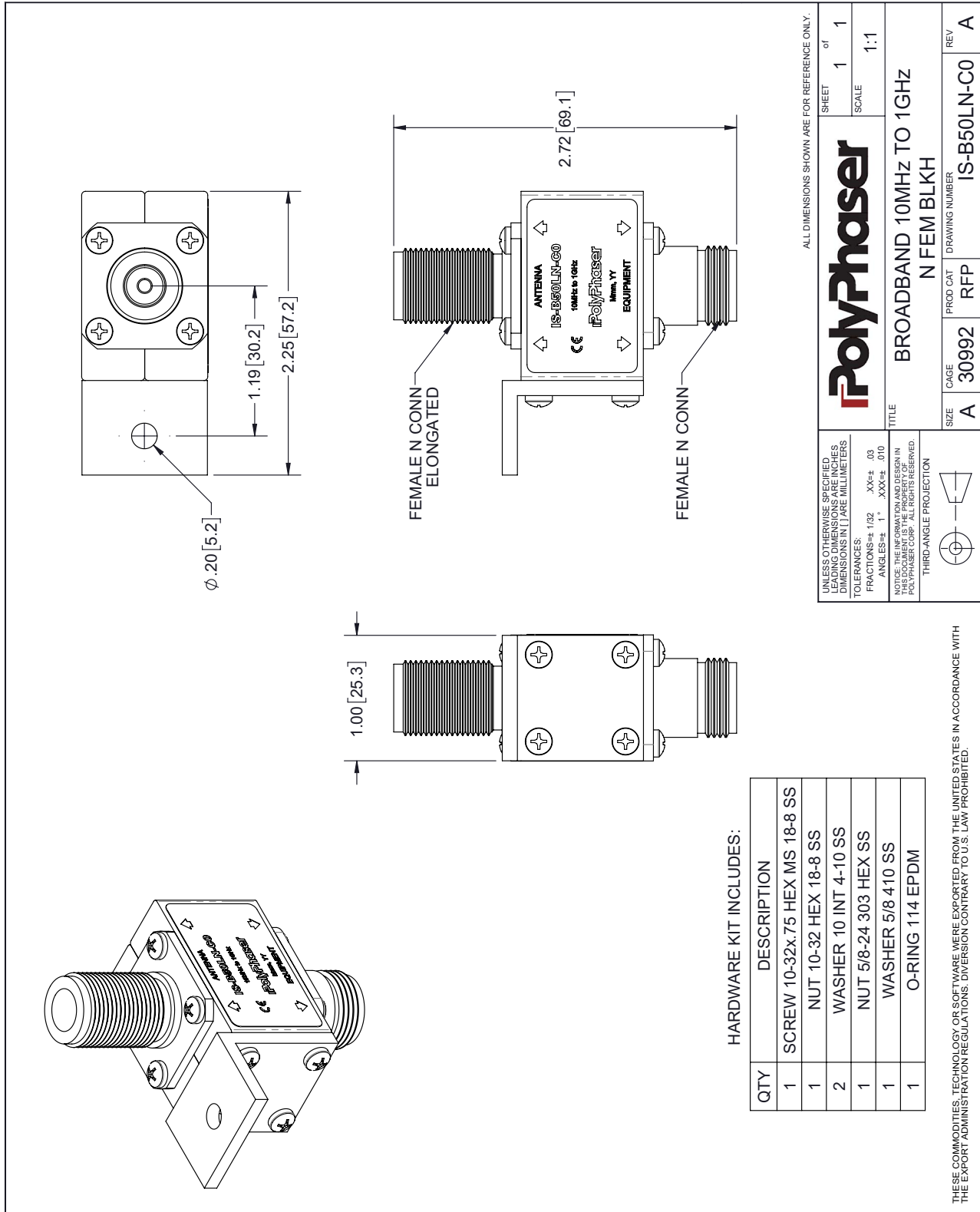
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URL: <https://www.polyphaser.com/type-n-surge-protector-1ghz-blocking-cap-gas-tube-is-b50ln-c0>

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IS-B50LN-C0 CAD Drawing



ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

**PolyPhaser**

SHEET 1 of 1  
SCALE 1:1

TITLE BROADBAND 10MHz TO 1GHz  
N FEM BLKH

SIZE	CAGE	PROD CAT	DRAWING NUMBER	REV
A	30992	RFP	IS-B50LN-C0	A

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

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

THIRD-ANGLE PROJECTION

HARDWARE KIT INCLUDES:

QTY	DESCRIPTION
1	SCREW 10-32x.75 HEX MS 18-8 SS
1	NUT 10-32 HEX 18-8 SS
2	WASHER 10 INT 4-10 SS
1	NUT 5/8-24 303 HEX SS
1	WASHER 5/8 410 SS
1	O-RING 114 EPDM

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