

Type N F/F Bulkhead Coaxial RF Surge Protector, 10MHz - 1GHz,
DC Block, 1.5kW, 120uJ, 20kA, Blocking Cap, Hole Mount



IS-B50LN-C2

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-C2 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

Description	Surge Protector Type DC Handling		Blocking Cap and Gas Tube DC Block	
	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 MULTIPLE				
Turn On Voltage		600 ±20%		Volts
Throughput Energy			120	uJ
@ 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, 120uJ, 20kA, Blocking Cap, Hole Mount IS-B50LN-C2](#)

Type N F/F Bulkhead Coaxial RF Surge Protector, 10MHz - 1GHz,
DC Block, 1.5kW, 120uJ, 20kA, Blocking Cap, Hole Mount



IS-B50LN-C2

Mechanical Specifications

Size

Length	2.72 in [69.09 mm]
Width/Diameter	1 in [25.4 mm]
Height	2.25 in [57.15 mm]
Weight	0.35 lbs [158.76 g]

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

RoHS
CE

Plotted and Other Data

Notes:

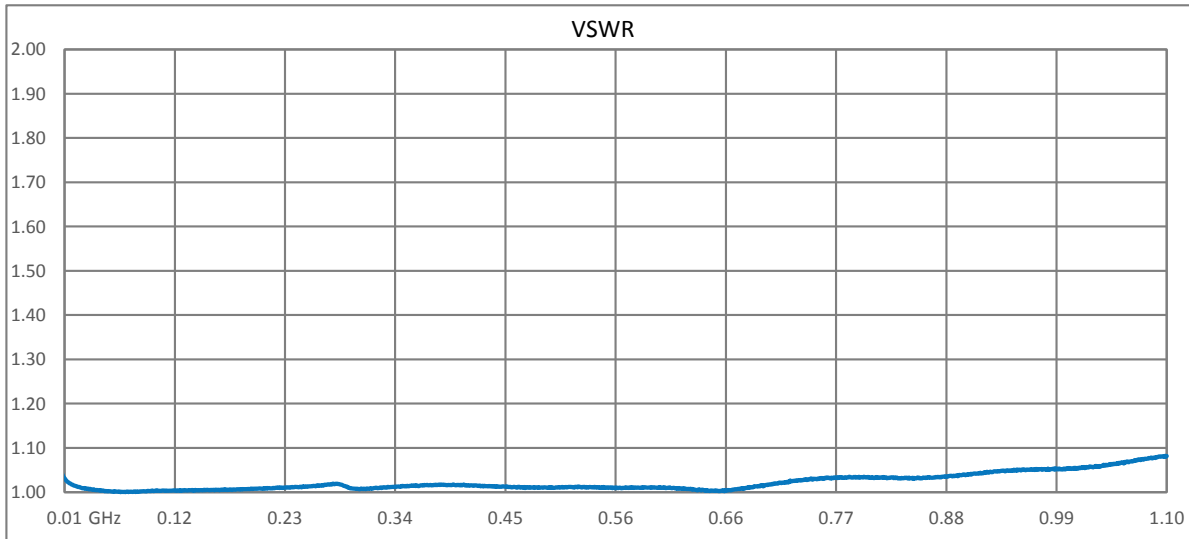
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[Type N F/F Bulkhead Coaxial RF Surge Protector, 10MHz - 1GHz, DC Block, 1.5kW, 120uJ, 20kA, Blocking Cap, Hole Mount IS-B50LN-C2](#)

Type N F/F Bulkhead Coaxial RF Surge Protector, 10MHz - 1GHz,
DC Block, 1.5kW, 120uJ, 20kA, Blocking Cap, Hole Mount



IS-B50LN-C2

Typical Performance Data

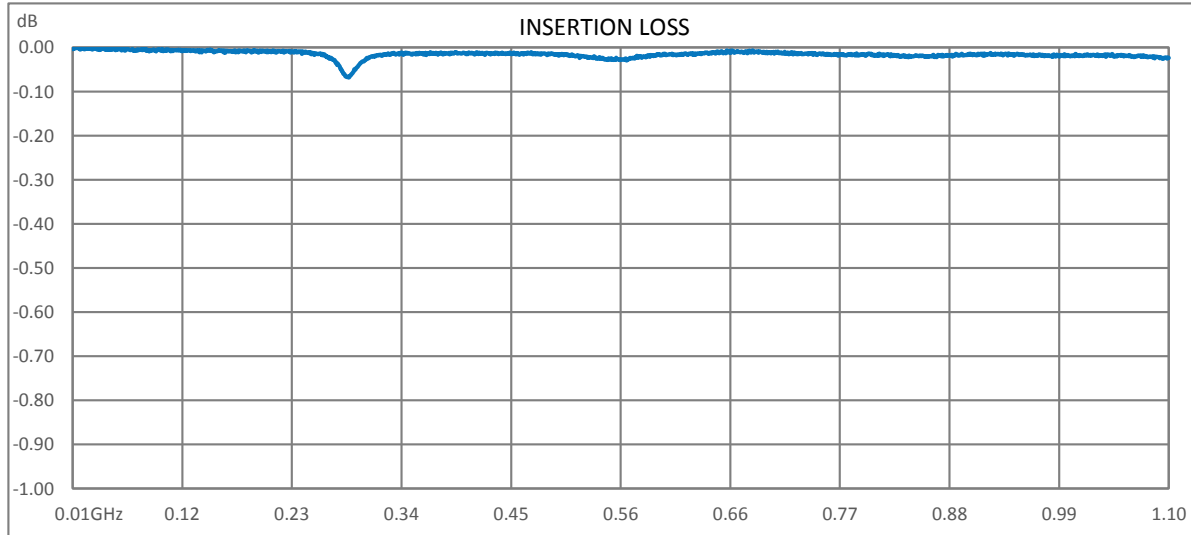


Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[Type N F/F Bulkhead Coaxial RF Surge Protector, 10MHz - 1GHz, DC Block, 1.5kW, 120uJ, 20kA, Blocking Cap, Hole Mount IS-B50LN-C2](#)

Type N F/F Bulkhead Coaxial RF Surge Protector, 10MHz - 1GHz,
DC Block, 1.5kW, 120uJ, 20kA, Blocking Cap, Hole Mount



IS-B50LN-C2



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.

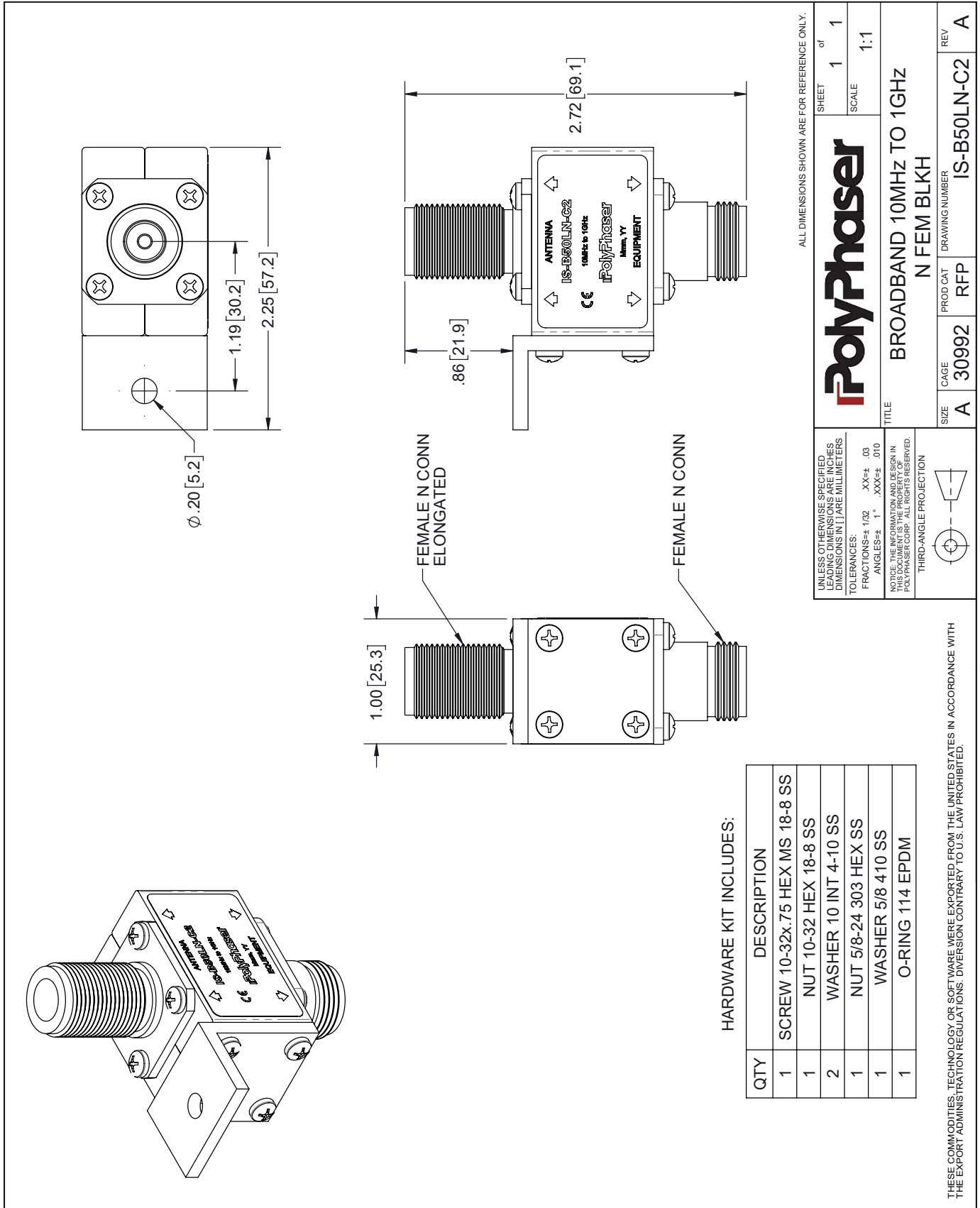
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Type N F/F Bulkhead Coaxial RF Surge Protector, 10MHz - 1GHz, DC Block, 1.5kW, 120uJ, 20kA, Blocking Cap, Hole Mount IS-B50LN-C2](#)

URL: <https://www.polyphaser.com/type-n-surge-protector-1ghz-blocking-cap-gas-tube-is-b50ln-c2-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.

Type N F/F Bulkhead Coaxial RF Surge Protector, 10MHz - 1GHz, DC Block, 1.5kW, 120uJ, 20kA, Blocking Cap, Hole Mount

IS-B50LN-C2 CAD Drawing



ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SHEET 1 of 1
SCALE 1:1

PolyPhaser

TITLE: BROADBAND 10MHz TO 1GHz N FEM BLKH

SIZE: A
CAGE: 30992
PROD CAT: RFP
DRAWING NUMBER: IS-B50LN-C2
REV: A

UNLESS OTHERWISE SPECIFIED, LEADING DIMENSIONS ARE IN INCHES, DIMENSIONS IN [] ARE MILLIMETERS.
TOLERANCES: FRACTIONS: ± 1/32 XX±.03 ANGLES: ± 1° .XXX±.010

THIS DRAWING IS THE PROPERTY OF POLYPHASER CORP. ALL RIGHTS RESERVED.

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

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.