PolyPhaser
an INFINITе brand

Type N F/F Bulkhead Coaxial RF Surge Protector, 125MHz - 1GHz, DC Block, 500W, 800uJ, 20kA, Blocking Cap, Hole Mount

IS-B50HN-C2

Features

- Surge current of 20kA
- Max Power 500W
- Frequency range from 125 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 arrestor) IS-B50HN-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

Surge Protector Type   Blocking Cap and Gas Tube
DC Handling   DC Block

Description	Minimum	Typical	Maximum	Units
Frequency Range	125		1,000	MHz
Impedance		50		Ohms
VSWR		1.1:1		
Insertion Loss			0.1	dB
Input Power, CW 500W @ 125MHz 125W @ 1GHz			500	Watts
Surge Current			20	kA
Turn On Voltage		1,200 20%		Volts
Throughput Energy FOR 8/20µs WAVEFORM			800	uJ

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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Mechanical Specifications
Size
Length	2.76 in [70.1 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	-55 to +50 deg C
Storage Range	-55 to +125 deg C

Ingress Protection (IP) Rating	None
Humidity	90% @ 40°C
Vibration	1G @ 5Hz to 100Hz

Compliance Certifications
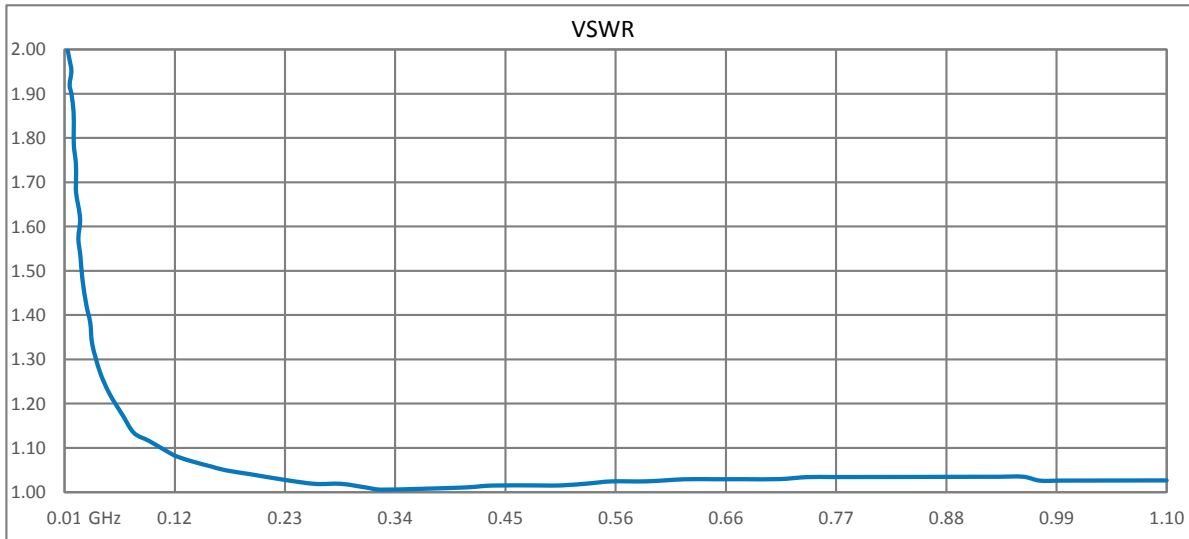|	
CE Compliant	Yes
UL	UL497E
Certifications	NOM

Plotted and Other Data
Notes:

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Typical Performance Data

VSWR

	0.01 GHz	0.12	0.23	0.34	0.45	0.56	0.66	0.77	0.88	0.99	1.10

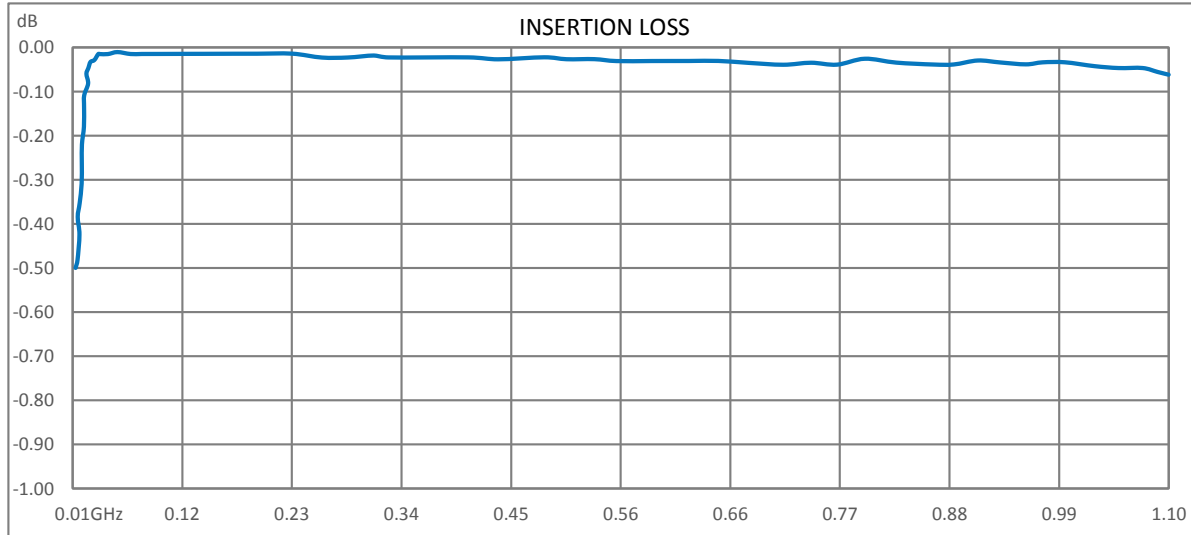(Y-axis: 2.00, 1.90, 1.80, 1.70, 1.60, 1.50, 1.40, 1.30, 1.20, 1.10, 1.00)

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INSERTION LOSS chart: dB axis from 0.00 to -1.00 (in 0.10 increments), frequency axis from 0.01GHz to 1.10 (0.12, 0.23, 0.34, 0.45, 0.56, 0.66, 0.77, 0.88, 0.99, 1.10)

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.
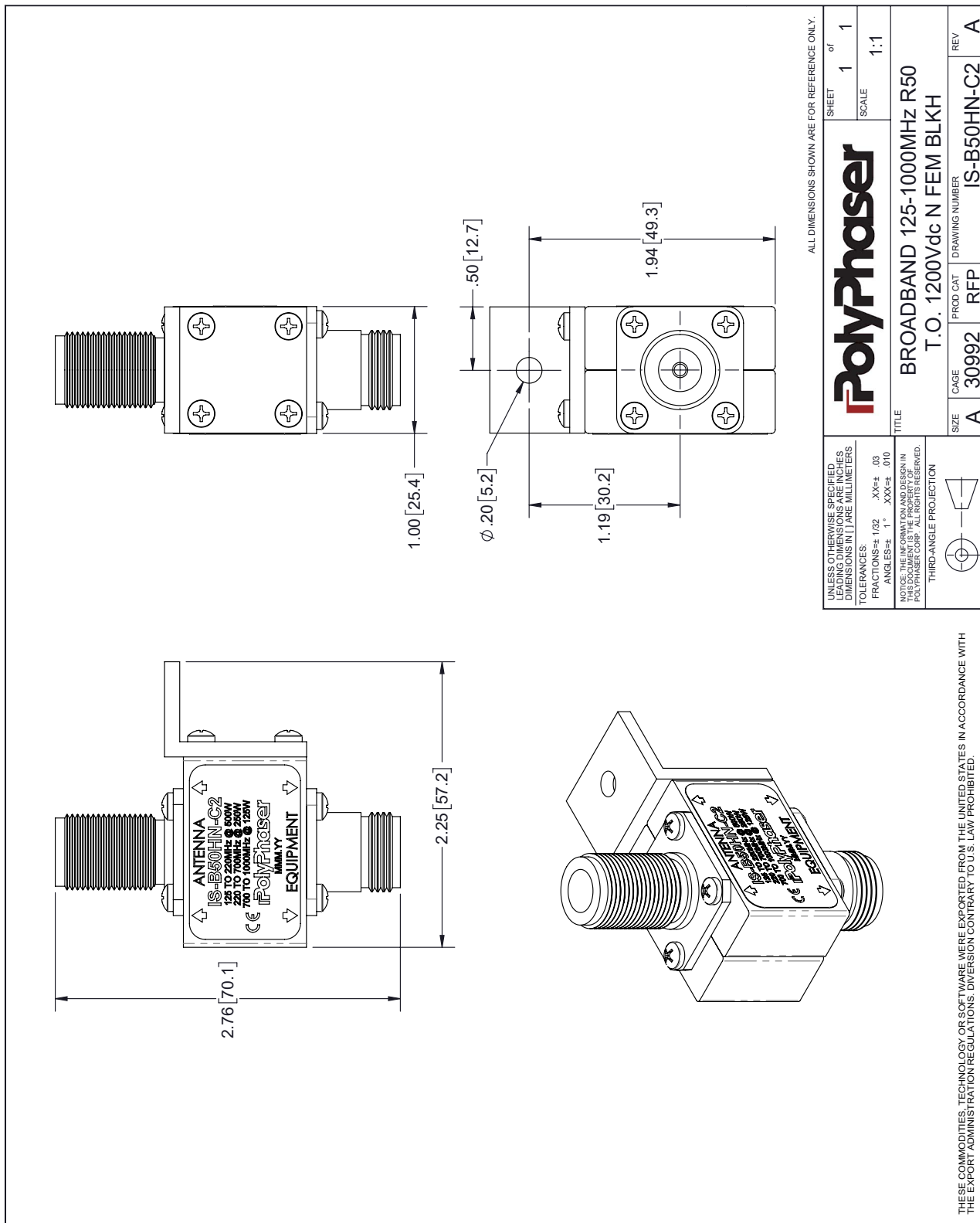
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URL: https://www.polyphaser.com/type-n-surge-protector-1ghz-blocking-cap-gas-tube-is-b50hn-c2-p.aspx

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Block, 500W, 800uJ, 20kA, Blocking Cap, Hole Mount

IS-B50HN-C2 CAD Drawing

All dimensions shown:
- .50 [12.7]
- 1.94 [49.3]
- Ø 20 [5.2]
- 1.19 [30.2]
- 1.00 [25.4]
- 2.25 [57.2]
- 2.76 [70.1]

ANTENNA
IS-B50HN-C2
125 TO 220MHz @ 500W
220 TO 700MHz @ 250W
700 TO 1000MHz @ 125W
MM.YY
EQUIPMENT

PolyPhaser

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

SHEET 1 of 1
SCALE 1:1
REV A

BROADBAND 125-1000MHz R50
T.O. 1200Vdc N FEM BLKH

DRAWING NUMBER: IS-B50HN-C2

TITLE

PROD CAT: RFP
CAGE: 30992
SIZE: A

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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