

Type N F/F Bulkhead Coaxial RF Surge Protector, 1.5MHz - 700MHz,  
DC Block, 3kW, 20uJ, 50kA, Blocking Cap, Hole Mount



## IS-B50HN-C0

### Features

- Surge current of 50kA
- Max Power 3kW
- Frequency range from 1.5 MHz to 700 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-B50HN-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               | 1.5     |           | 700     | MHz    |
| Impedance                     |         | 50        |         | Ohms   |
| VSWR                          |         |           | 1.1:1   |        |
| Insertion Loss                |         |           | 0.1     | dB     |
| Input Power, CW               |         |           | 3       | kWatts |
| 3kW @ 1.5MHz TO 50MHz         |         |           |         |        |
| 500W @ 50MHz TO 220MHz        |         |           |         |        |
| 250W @ 220MHz TO 700MHz       |         |           |         |        |
| Surge Current                 |         |           | 50      | kA     |
| IEC 61000-4-5 8/20µs WAVEFORM |         |           |         |        |
| Turn On Voltage               |         | 1,200 20% |         | Volts  |
| Throughput Energy             |         |           | 20      | uJ     |

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, 1.5MHz - 700MHz, DC Block, 3kW, 20uJ, 50kA, Blocking Cap, Hole Mount IS-B50HN-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]  |
| 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

Humidity

90% @ 40°C

Vibration

1G @ 5Hz to 100Hz

### Compliance Certifications

CE Compliant

Yes

UL

UL497E

### Plotted and Other Data

Notes:

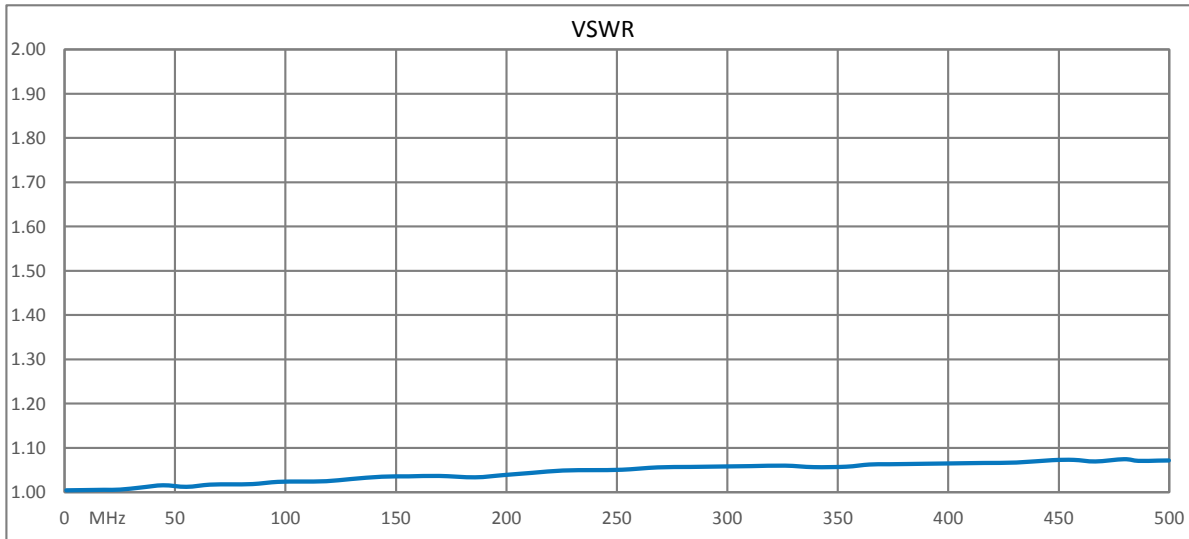
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### Typical Performance Data



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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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IS-B50HN-C0 CAD Drawing

