

4.3-10 F/M Coaxial RF Surge Protector, 100MHz - 520MHz,
DC Block, 750W, 20kA, Low-PIM, Bracket Down



VHF50B43-ME-PGR-BD

Features

- 20kA surge rating
- Low let-throuh high pass filter design
- Bi-directional, repetitive strike protection
- 4.3-10 connectors both sides
- Broadband performance from 100 MHz to 520 MHz
- High CW and PIP RF power
- Excellent RF performance
- Low PIM
- Waterproof IP67 rated
- CE & RoHS compliant

Applications

- VHF/UHF Range 1 and Range 2
- Land Mobile Radio
- Emergency response systems
- Public safety systems

Description

RF surge protector (also known as lightning arrestor) VHF50B43-ME-PGR-BD from PolyPhaser, protects critical hardware by maintaining extremely low let-through energy during transient surges, while maintaining the RF performance. This RF surge protector provides bi-directional repetitive strike protection over a wide operating frequency range. PolyPhaser RF surge protector products are available in stock with same day shipping.

Electrical Specifications

| Surge Protector Type | High Pass | | | |
|-------------------------------------|-----------|---------|---------|--------|
| DC Handling | DC Block | | | |
| Description | Minimum | Typical | Maximum | Units |
| Frequency Range | 100 | | 520 | MHz |
| Impedance | | 50 | | Ohms |
| Return Loss | | | 26 | dB |
| Insertion Loss | | | 0.1 | dB |
| Passive Intermodulation | | | -155 | dBc |
| Input Power, CW | | | 750 | Watts |
| Input Power, Peak | | | 25 | kWatts |
| Surge Current | | | 20 | kA |
| IEC 61000-4-5 8/20 μ s WAVEFORM | | | | |
| Throughput Energy | | | 500 | nJ |
| for 3kA @ 8/20 μ s waveform | | | | |

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
[4.3-10 F/M Coaxial RF Surge Protector, 100MHz - 520MHz, DC Block, 750W, 20kA, Low-PIM, Bracket Down VHF50B43-ME-PGR-BD](#)

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Mechanical Specifications

Size

| | |
|----------------|---------------------|
| Length | 4.21 in [106.93 mm] |
| Width/Diameter | 3.01 in [76.45 mm] |
| Height | 1.66 in [42.16 mm] |
| Weight | 1.15 lbs [521.63 g] |

Configuration

| | |
|------------------|---------------|
| Input Connector | 4.3-10 Female |
| Output Connector | 4.3-10 Male |

Environmental Specifications

Temperature

| | |
|-----------------|------------------|
| Operating Range | -50 to +85 deg C |
|-----------------|------------------|

| | |
|--------------------------------|----------------------|
| Ingress Protection (IP) Rating | IP67 |
| Humidity | 99% (non-condensing) |

Compliance Certifications

| | |
|----------------|--------------|
| RoHS Compliant | Yes |
| CE Compliant | Yes |
| UL | UL497E |
| Standard | Motorola R56 |

Plotted and Other Data

Notes:

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/4.3-10-surge-protector-520mhz-high-pass-vhf50b43-me-pgr-bd-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

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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.

VHF50B43-ME-PGR-BD CAD Drawing

