

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



## VHF50B43-MA-PGR-BU

### Features

- 20kA surge rating
- Low let-through 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-MA-PGR-BU 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  
DC Handling

High Pass  
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 IEC 61000-4-5 8/20µs WAVEFORM			20	kA
Throughput Energy FOR 3kA, 8/20µs WAVEFORM			500	nJ

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 M/F Coaxial RF Surge Protector, 100MHz - 520MHz, DC Block, 750W, 20kA, Low-PIM, Bracket Up VHF50B43-MA-PGR-BU](#)

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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 Male
Output Connector	4.3-10 Female

### 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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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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VHF50B43-MA-PGR-BU CAD Drawing

