

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



VHF50B43-MA-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

Applications

- VHF/UHF Range 1 and Range 2
- Land Mobile Radio

- High CW and PIP RF power
- Excellent RF performance
- Low PIM
- · Waterproof IP67 rated
- · CE & RoHS compliant
- Emergency response systems
- · Public safety systems

Description

RF surge protector (also known as lightning arrestor) VHF50B43-MA-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 bidirectional 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			20	kA
IEC 61000-4-5 8/20μs WAV	EFORM			
Throughput Energy			500	nJ
for 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: 4.3-10 M/F Coaxial RF Surge Protector, 100MHz - 520MHz, DC Block, 750W, 20kA, Low-PIM, Bracket Down VHF50B43-MA-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 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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URL: https://www.polyphaser.com/4.3-10-surge-protector-520mhz-high-pass-vhf50b43-ma-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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VHF50B43-MA-PGR-BD CAD Drawing

