

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



VHF50B43-MA-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
- 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 arrester) VHF50B43-MA-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
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, Bracket Up VHF50B43-MA-BU](#)

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



VHF50B43-MA-BU

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 Standard	UL497E 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.

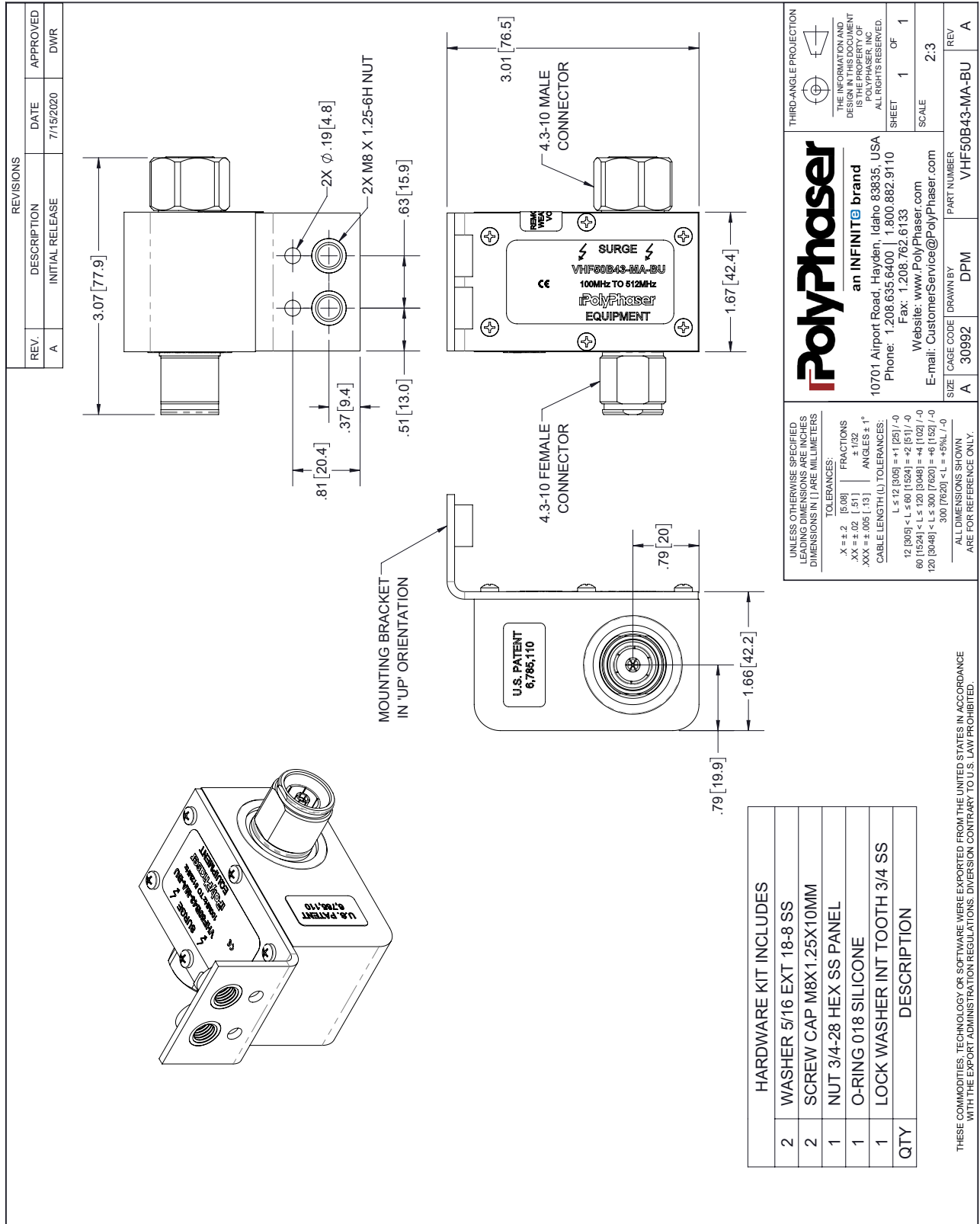
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [4.3-10 M/F Coaxial RF Surge Protector, 100MHz - 520MHz, DC Block, 750W, 20kA, Bracket Up VHF50B43-MA-BU](https://www.polyphaser.com/4.3-10-surge-protector-520mhz-high-pass-vhf50b43-ma-bu-p.aspx)

URL: <https://www.polyphaser.com/4.3-10-surge-protector-520mhz-high-pass-vhf50b43-ma-bu-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 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.

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

VHF50B43-MA-BU CAD Drawing



REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	INITIAL RELEASE	7/15/2020	DWR

PolyPhaser
an INFINITE brand

10701 Airport Road, Hayden, Idaho 83835, USA
Phone: 1.208.635.6400 | 1.800.882.9110
Fax: 1.208.762.6133
Website: www.PolyPhaser.com
E-mail: CustomerService@PolyPhaser.com

THIRD-ANGLE PROJECTION

THE INFORMATION AND DESIGN ARE THE PROPERTY OF POLYPHASER, INC. ALL RIGHTS RESERVED.
SHEET 1 OF 1

SCALE 2:3

SIZE A CAGE CODE 30992 DPM DRAWN BY VHF50B43-MA-BU PART NUMBER REV A

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [] ARE MILLIMETERS

TOLERANCES:
 .X = ±.2 [5.08] FRACTIONS ±.132
 .XX = ±.02 [.51] ±.132
 .XXX = ±.005 [.13] ANGLES ± 1°
 CABLE LENGTH (L) TOLERANCES:
 L ≤ 12 [305] ±.1 [25] / -0
 12 [305] < L ≤ 60 [1524] = ±.15 [3.8] / -0
 60 [1524] < L ≤ 120 [3048] = ±.1 [2.5] / -0
 120 [3048] < L ≤ 300 [7620] = ±.15 [3.8] / -0
 300 [7620] < L = +5% / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

THESE COMMODITIES, TECHNOLOGY OR SOFTWARE WERE EXPORTED FROM THE UNITED STATES IN ACCORDANCE WITH THE EXPORT ADMINISTRATION REGULATIONS. DIVERSION CONTRARY TO U.S. LAW PROHIBITED.