

Type 7/16 DIN F/M Coaxial RF Surge Protector, 80MHz - 200MHz, DC Block, 1000W, IP67, 15mJ, 20kA, Filter, Bracket Down, Hole Mount



VUF50DHP-ME

Features

- Surge current of 20kA
- Max Power 750W
- Frequency range from 0.5 MHz to 1 GHz VHF Band
- 7/16 DIN Female to 7/16 DIN Male connectors
- VSWR 1.1:1
- Waterproof IP67 rated
- DC Block
- Multi-strike capability
- CE & RoHS compliant

Applications

- Emergency response systems
- Public safety systems

Description

RF filter (also known as lightning arrester or surge arrester) VUF50DHP-ME from PolyPhaser, integrating a patented inductor designed for lightning surges and a RF blocking capacitor. 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

Hybrid
DC Block

Description	Minimum	Typical	Maximum	Units
Frequency Range	80		200	MHz
Impedance		50		Ohms
VSWR			1.1:1	
Insertion Loss			0.1	dB
Input Power, CW			1	kWatts
Surge Current			20	kA
Turn On Voltage		1,400		Volts
Throughput Energy			15	mJ

Mechanical Specifications

Size

Length 3.65 in [92.71 mm]
Width/Diameter 1.75 in [44.45 mm]

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:
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VUF50DHP-ME

Height	3.01 in [76.45 mm]
Weight	1 lbs [453.59 g]
Housing Material and Plating	Aluminum
Configuration	
Input Connector	7/16 DIN Female
Output Connector	7/16 DIN Male

Environmental Specifications

Temperature	
Operating Range	-50 to +85 deg C
Ingress Protection (IP) Rating	IP67
Humidity	90%

Compliance Certifications

RoHS Compliant	
CE Compliant	Yes

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/7-16-surge-protector-200mhz-hybrid-vuf50dhp-me-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.

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VUF50DHP-ME CAD Drawing

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	4/19/2021	DWR

DIN FEMALE (SURGE)

DIN MALE (PROTECTED)

HARDWARE KIT INCLUDES:

QTY	DESCRIPTION
1	WASHER 1.15 ID FLAT SST TYPE 304
1	NUT M29 X 1.5 SST DIN
1	O-RING 025 SILICONE
1	SCREW CAP M8 X 1.25 X 10MM
1	WASHER 5/16 EXT 18-8 SS

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

TOLERANCES:

.X = ±.2 [5.08]	FRACTIONS ± 1/32	ANGLES ± 1°
.XX = ±.02 [1.51]	.XXX = ±.005 [1.31]	CABLE LENGTH (L) TOLERANCES:
		L ≤ 12 [305] = ±1 [25] / -0
		12 [305] < L ≤ 60 [1524] = ±2 [51] / -0
		60 [1524] < L ≤ 120 [3048] = ±4 [102] / -0
		120 [3048] < L ≤ 300 [7620] = ±6 [152] / -0
		300 [7620] < L = +5% / L / -0

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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THIRD-ANGLE PROJECTION

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SCALE 1:2

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SIZE A CAGE CODE A DRAWN BY DPM PART NUMBER VUF50DHP-ME REV A