



TSX-DFM-P2-BF

Features

- · Surge current of 40kA
- Max Power 500W
- Frequency range from 698 MHz to 2160 MHz
- Waterproof IP67 rated
- 7/16 DIN Female to 7/16 DIN Male connectors

Applications

- · Cellular communication systems
- Public safety systems

- DC Block
- VSWR <1.1:1
- · Low insertion loss
- CE & RoHS compliant
- Bidirectional
- Emergency response systems
- Industrial Communications

Description

RF surge protector (also known as lightning arrester) TSX-DFM-P2-BF from PolyPhaser utilizing a patented spiral inductor design enables an almost instantaneous response to a lightning surge to protect critical hardware while maintaining the RF performance. 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

Surge Filter DC Block

Description	Minimum Typical Maximum		Maximum	Units	
Frequency Range	0.698		2.16		
Impedance		50		Ohms	
VSWR					
Return Loss		26			
Insertion Loss			0.1	dB	
Passive Intermodulation			-163 dBc		
Input Power, CW			500	Watts	
500W @ 920MHz					
750W @ 50°C					
Input Power, Peak			27	kWatts	
Surge Current		20	40	kA	
IEC 61000-4-5 8/20µs WAVE	FORM				

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: 7/16 F/M Bulkhead Coaxial RF Surge Protector, 698MHz - 2.16GHz, DC Block, 500W, IP67, .005uJ, 40kA, Filter, Low PIM TSX-DFM-P2-BF





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Throughput Energy 5 nJ

FOR 3kA@ 8/20µs WAVEFORM

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.698 to 1	1 to 1.86	1.86 to 2.16			GHz
Return Loss, Max	30	26	30			dB

Mechanical Specifications

Size

 Length
 3.27 in [83.06 mm]

 Width/Diameter
 1.45 in [36.83 mm]

 Weight
 1.15 lbs [521.63 g]

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

Vibration 1G @ 5Hz to 100Hz

Compliance Certifications

RoHS CE

Plotted and Other Data

Notes:

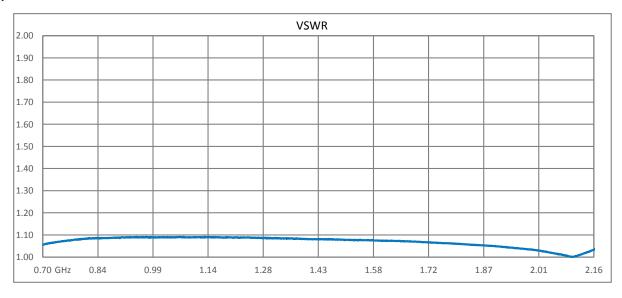
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Typical Performance Data

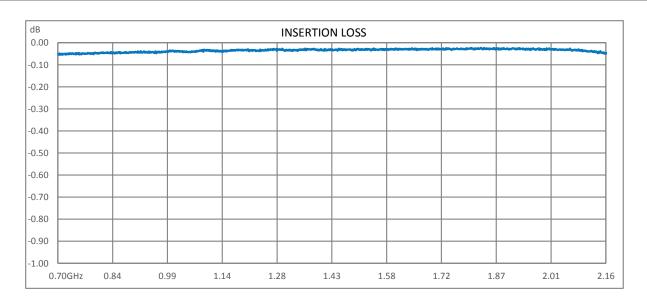


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PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, 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-2.16ghz-filter-tsx-dfm-p2-bf-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.

TSX-DFM-P2-BF CAD Drawing

