

7/16 F/M Bulkhead Coaxial RF Surge Protector, 698MHz - 2.7GHz,  
1000W, IP67, 60 V Max., 25mJ, 40kA, Filter, Low PIM



## TSXDC-DFM

### Features

- Surge current of 40kA
- Max Power 1000W
- Frequency range from 698 MHz to 2700 MHz
- Waterproof IP67 rated
- 7/16 DIN Female to 7/16 DIN Male connectors
- DC Pass
- VSWR <1.2:1
- Low insertion loss
- CE & RoHS compliant
- Bi-Directional

### Applications

- Cellular communication systems
- Public safety systems
- Emergency response systems
- Industrial Communications

### Description

RF surge protector (also known as lightning arrester) TSXDC-DFM 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 Pass		
Description	Minimum	Typical	Maximum	Units
Frequency Range	0.698		2.7	GHz
Impedance		50		Ohms
VSWR			1.2:1	
Return Loss			20	dB
Insertion Loss			0.1	dB
Passive Intermodulation		-125	-155	dBc
Operating Voltage (DC)			60	Volts
Operating Current (DC)			6	A
Resistance (DC)			20	mOhms
Input Power, CW @ 920 MHz			1	kWatts
Surge Current IEC 61000-4-5 8/20µs WAVEFORM		20	40	kA

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 - 2.7GHz, 1000W, IP67, 60 V Max., 25mJ, 40kA, Filter, Low PIM TSXDC-DFM](#)

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Throughput Voltage <500V 2kA IEC 61000-4-5 8/20µs WAVEFORM	500	Volts
Throughput Energy FOR 2kA IEC 61000-4-5 8/20µs WAVEFORM	25	mJ

## Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.698 to 0.71	0.71 to 1	1 to 2.7			GHz
Return Loss, Typ	20	26	23			dB

## Mechanical Specifications

### Size

Length	3.46 in [87.88 mm]
Width/Diameter	1.73 in [43.94 mm]
Height	1.94 in [49.28 mm]
Weight	1.4 lbs [635.03 g]

### Configuration

Input Connector	7/16 DIN Female
Output Connector	7/16 DIN Male

## Environmental Specifications

### Temperature

Operating Range	-50 to +85 deg C
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### Ingress Protection (IP) Rating

IP67

### Humidity

95%, Non-condensing, 100% External

## Compliance Certifications

RoHS Compliant	Yes
CE Compliant	Yes
UL Certifications	UL497E

## Plotted and Other Data

Notes:

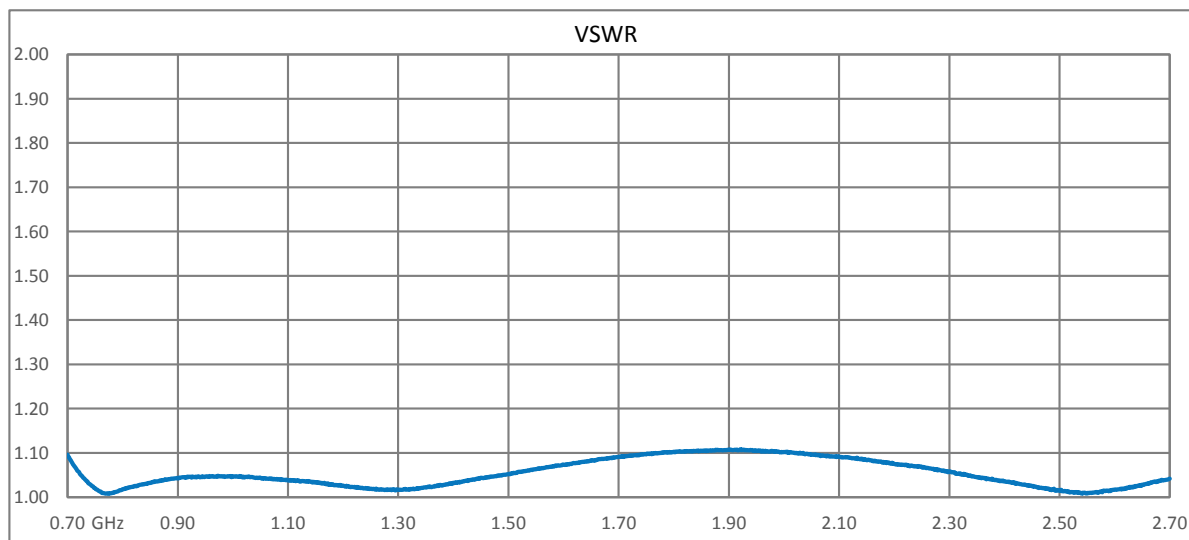
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### Typical Performance Data

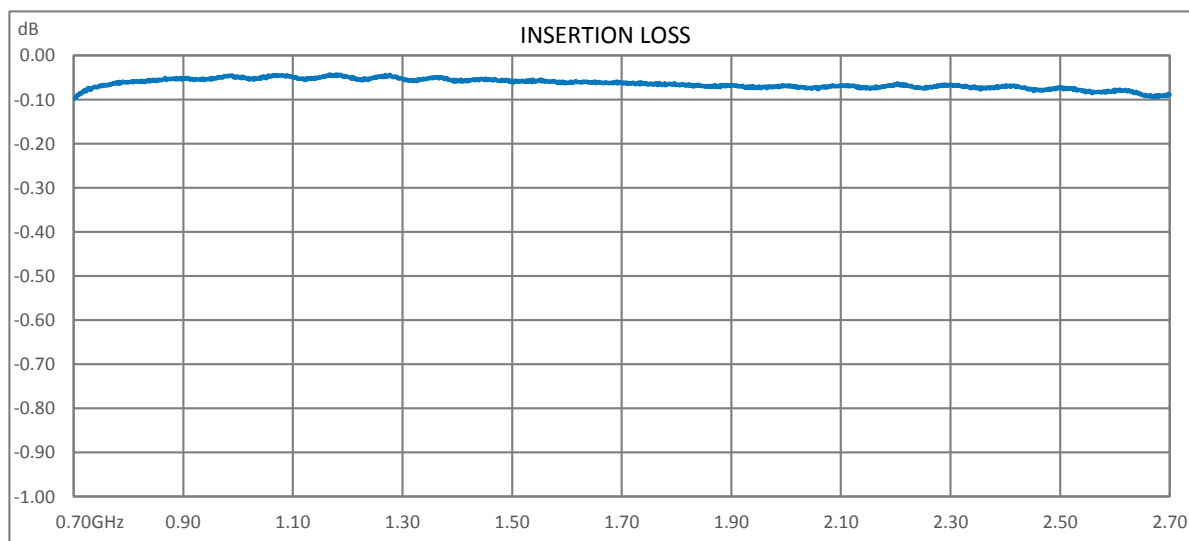


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PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, 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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TSXDC-DFM CAD Drawing

