

7/16 DIN F/M Bulkhead Coaxial RF Surge Protector, 698MHz
- 2.7GHz, DC Block, Low PIM, Hazardous Location



TSX-DFM-HL

Features

- UL and Hazardous Locations Certified
- Frequency range from 698 MHz to 2700 MHz
- DC Block
- Bidirectional
- Surge current of 40kA
- Max Power 500W
- VSWR <1.1:1
- Low Insertion Loss
- Low PIM
- Waterproof IP67 Rated

Applications

- Oil & Gas
- Industrial Facilities
- Rail
- Cellular
- Public Safety Systems
- Emergency Response Systems

Description

RF surge protector (also known as lightning arrester) TSX-DFM-HL 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	Units
Frequency Range	0.698		2.7	GHz
Impedance		50		Ohms
VSWR			1.1:1	
Insertion Loss			0.1	dB
Passive Intermodulation			-155	dBc
Input Power, CW			500	Watts
Surge Current IEC 61000-4-5 8/20µs WAVEFORM		20	40	kA

Mechanical Specifications

Size

Length

3.27 in [83.06 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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Width/Diameter	1.45 in [36.83 mm]
Height	1.45 in [36.83 mm]
Weight	0.6 lbs [272.16 g]
Housing Material and Plating	Brass, Tri-metal

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
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Compliance Certifications

RoHS Compliant	Yes
CE Compliant	Yes
UL	UL497E
Hazardous Locations Compliant	Yes
Certifications	Class 1 Div 2 Groups A, B, C, D T4 -50°C to +85°C

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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TSX-DFM-HL CAD Drawing

T-Rev.D