

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



TSXDC-DFF-HL

Features

- UL and Hazardous Locations Certified
- RF Frequency range from 698 MHz to 2700 MHz
- AISG Telemetry Frequency range from DC to 2.5MHz
- DC Pass
- Bidirectional
- Max Surge current of 20kA
- Max Power 1000 Watts
- VSWR 1.2:1
- 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 arrestor) TSXDC-DFF-HL from PolyPhaser utilizing a patented spiral inductor design enables 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 wider operating frequency range. PolyPhaser RF surge protector products are available in stock with same day shipping.

Electrical Specifications

Surge Protector Type

RF Surge Protectors

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.698		2.7	GHz
Impedance		50		Ohms
VSWR			1.2:1	
Insertion Loss			0.1	dB
Passive Intermodulation		-155		dBc
Operating Voltage (DC)			60	Volts
Operating Current (DC)			6	A
Input Power, CW			1	kWatts
Surge Current			20	kA
Throughput Energy			25	nJ

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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Mechanical Specifications

Size

Length	3.5 in [88.9 mm]
Width/Diameter	1.94 in [49.28 mm]
Height	1.73 in [43.94 mm]
Weight	1 lbs [453.59 g]
Housing Material and Plating	Brass, Tri-metal

Configuration

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

Environmental Specifications

Temperature

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

Compliance Certifications

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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URL: <https://www.polyphaser.com/7-16-surge-protector-2.7ghz-txadc-dff-hl-p.aspx>

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TSXDC-DFF-HL CAD Drawing

