

4.3-10 F/M Bulkhead Coaxial RF Surge Protector, 698MHz - 2.7GHz, 500W, IP67, 80 V Max., 1mJ, 40kA, Filter, Low PIM



TSXDC-4310FM

Features

- Surge current of 40kA
- Max Power 500W
- Frequency range from 698 MHz to 2700 MHz
- Waterproof IP67 rated
- 4.3-10 Female to 4.3-10 Male connectors
- DC Pass
- VSWR Typ 1.12:1
- Low insertion loss
- CE & RoHS compliant
- Bidirectional

Applications

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

Description

RF surge protector (also known as lightning arrester) TSXDC-4310FM 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 and Gas Tube
DC Pass

Description	Minimum	Typical	Maximum	Units
Frequency Range	0.698		2.7	GHz
Impedance		50		Ohms
VSWR		1.12:1		
Return Loss			23	dB
Insertion Loss		0.1	0.3	dB
Passive Intermodulation		-155	-173	dBc
Operating Voltage (DC)			80	Volts
Operating Current (DC)			6	A
Resistance (DC)			20	mOhms
Input Power, CW			500	Watts
Surge Current IEC 61000-4-5 8/20µs waveform		20	40	kA
Throughput Energy			1	mJ

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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for 2kA @ 8/20µs waveform

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	0.698 to 0.75	0.75 to 2.7				GHz
Return Loss, Typ	23	25				dB

Mechanical Specifications

Size

Length	2.98 in [75.69 mm]
Width/Diameter	1.72 in [43.69 mm]
Height	1.81 in [45.97 mm]
Weight	1 lbs [453.59 g]
Housing Material and Plating	Brass, Tri-Metal

Configuration

Input Connector	4.3-10 Female
Output Connector	4.3-10 Male

Environmental Specifications

Temperature

Operating Range	-50 to +85 deg C
Storage Range	-50 to +85 deg C

Ingress Protection (IP) Rating	IP67
Humidity	95%

Compliance Certifications

CE Compliant	Yes
UL	UL497E
Certifications	NOM

Plotted and Other Data

Notes:

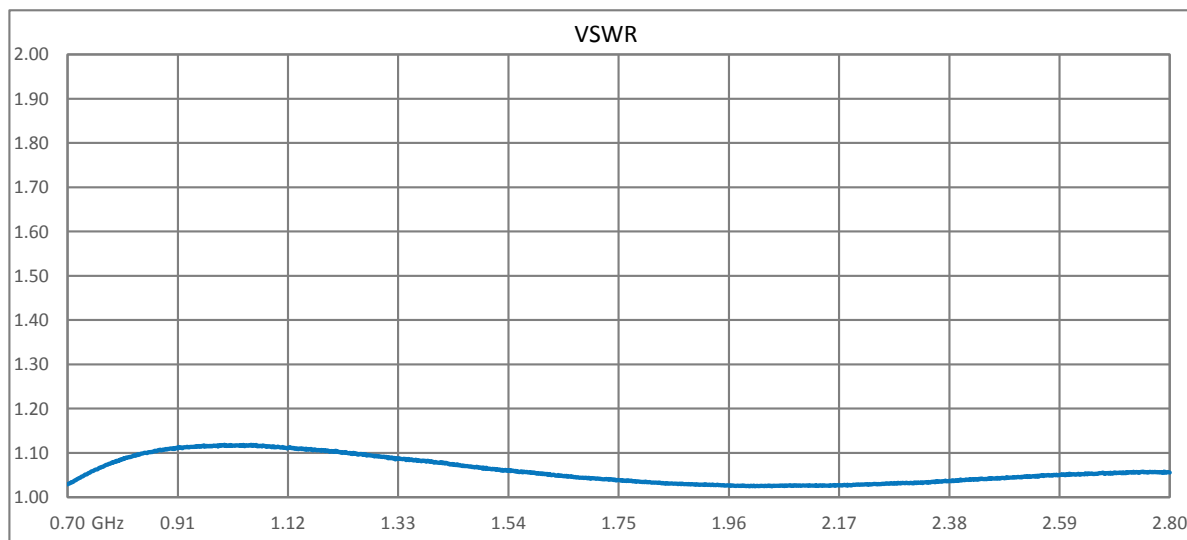
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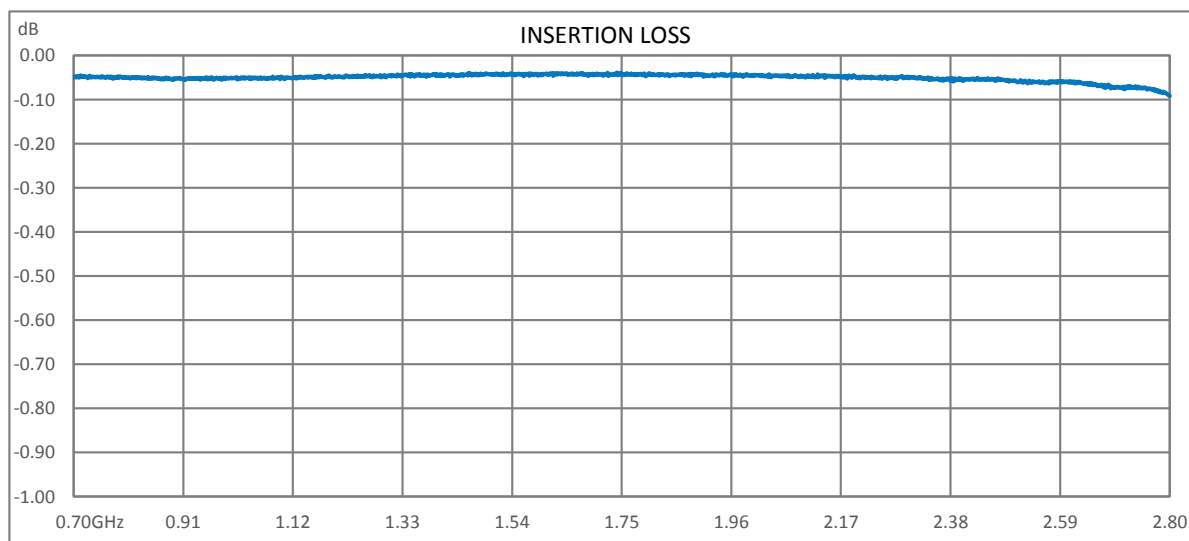
Typical Performance Data



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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-4310FM CAD Drawing

