

7/16 F/M Bulkhead Coaxial RF Surge Protector, 698MHz - 2.7GHz,  
1.5kW, IP67, 30 V Max., 25mJ, 30kA, Filter, Low PIM -155 dBc



## ESXDC-DFM

### Features

- Surge current of 30kA
- Max Power 1500W
- Frequency range from 698 MHz to 2.7 GHz
- Waterproof IP67 rated
- 7/16 DIN Female to 7/16 DIN Male connectors
- DC Pass
- VSWR <1.25:1
- Low insertion loss
- CE & RoHS compliant
- Bidirectional

### Applications

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

### Description

RF surge protector (also known as lightning arrester or surge arrester) ESXDC-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
Return Loss		20	-17	dB
Insertion Loss			0.1	dB
Passive Intermodulation			-155	dBc
Operating Voltage (DC)			30	Volts
Operating Current (DC)			10	A
Resistance (DC)			20	mOhms
Input Power, CW			1.5	kWatts
Surge Current IEC 61000-4-5 8/20μs waveform one strike			30	kA
Throughput Energy 2kA IEC 61000-4-5 8/20μs waveform			25	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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### 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	1.35 lbs [612.35 g]
Housing Material and Plating	Brass

#### Configuration

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

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### 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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ESXDC-DFM CAD Drawing

