

Type N M/F Bulkhead Coaxial RF Surge Protector, 700MHz to 1000MHz,  
Telemetry, DC Pass, 15V, IP67, 20kA, Hybrid, Flange Mount



## 109-0501W-A

### Features

- Surge Current of 20kA
- Max Power 750W
- Frequency Range from 700MHz to 1000MHz
- Passes 2.176MHz Telemetry Signal
- N Female to N Male connectors
- VSWR 1.1:1
- Low Insertion Loss
- Multi-strike capability
- Flange Mount
- CE & RoHS compliant

### Applications

- Cellular
- Land mobile radio

### Description

RF surge protector (also known as lightning arrester) 109-0501W-A from PolyPhaser, utilizing a patented hybrid protection technology integrating a silicon avalanche suppression diode (SASD) and a MOV and gas tube, enables a quick 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		Hybrid DC Pass		
Description	Minimum	Typical	Maximum	Units
Frequency Range	700		1,000	MHz
Impedance		50		Ohms
VSWR			1.1:1	
Insertion Loss			0.4	dB
Operating Voltage (DC)			15	Volts
Operating Current (DC)			4	A
Input Power, CW			750	Watts
Surge Current			20	kA
Turn On Voltage		16.5		Volts
Throughput Energy			500	uJ

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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Insertion Loss, Max	0.4	dB
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### Mechanical Specifications

#### Size

Length	3.28 in [83.31 mm]
Width/Diameter	1.73 in [43.94 mm]
Height	3.01 in [76.45 mm]
Weight	0.85 lbs [385.55 g]
Housing Material and Plating	Aluminum

#### Configuration

Input Connector	N Male
Output Connector	N Female

### Environmental Specifications

#### Temperature

Operating Range	-50 to +85 deg C
Ingress Protection (IP) Rating	IP67
Humidity	95%

### Compliance Certifications

RoHS Compliant	
CE Compliant	Yes

### 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:

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## 109-0501W-A CAD Drawing

Row D