

Type N F/F Bulkhead Coaxial RF Surge Protector,  
DC - 1GHz, , IP67, 500uJ, 4kA, Filter



## 218-1118B-KIT

### Features

- Surge current of 4kA
- Max Power 100W
- Frequency range from DC to 1.0GHz
- N-type Female to Male connectors
- Waterproof IP67 rated
- DC Pass
- VSWR 1.1:1 Typical
- Bidirectional

### Applications

- HF, UHF and VHF radios
- Ham radios
- Remote industrial monitoring

### Description

RF surge protector (also known as lightning arrester or surge arrestor) 218-1118B-KIT from PolyPhaser, utilizing a gas tube (GT or GDT). 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

Gas Discharge Tube

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1,000	MHz
Impedance		50		Ohms
VSWR		1.1:1	1.2:1	
Insertion Loss			0.1	dB
Operating Current (DC)			6	A
Resistance (DC)			0.02	mOhms
Surge Current IEC 61000-4-5 8/20us WAVEFORM, DIRECT INJECTION BOTH POLARITIES			4	kA
Turn On Voltage		±20%	70	Volts
Throughput Voltage WITH 8/20us SURGE PULSE INTO A BROADBAND RESISTIVE 50W LOAD			100	Volts
Throughput Energy @ 8/20us 4kA SURGE PULSE			500	uJ

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[Type N F/F Bulkhead Coaxial RF Surge Protector, DC - 1GHz, , IP67, 500uJ, 4kA, Filter 218-1118B-KIT](#)

Type N F/F Bulkhead Coaxial RF Surge Protector,  
DC - 1GHz, , IP67, 500uJ, 4kA, Filter



## 218-1118B-KIT

### Mechanical Specifications

#### Size

Length	2.8 in [71.12 mm]
Width/Diameter	1.2 in [30.48 mm]
Height	1.2 in [30.48 mm]

#### Configuration

Input Connector	N Female
Output Connector	N Male

### Environmental Specifications

#### Temperature

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

#### Ingress Protection (IP) Rating

IP67

#### Humidity

95% Non-condensing, 100% External

Environmental Specification Notes:

MEETS BELLCORE #TA-NWT-000487 PROCEDURE 4.11, WIND DRIVEN (120 MPH) RAIN INTRUSION TEST

### Compliance Certifications

RoHS Compliant

### 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.

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications: [Type N F/F Bulkhead Coaxial RF Surge Protector, DC - 1GHz, , IP67, 500uJ, 4kA, Filter 218-1118B-KIT](#)

URL: <https://www.polyphaser.com/type-n-surge-protector-1ghz-filter-218-1118b-kit-p.aspx>

The information contained in this document is accurate to the best of our knowledge and representative of the part described herein. It may be necessary to make modifications to the part and/or the documentation of the part, in order to implement improvements. PolyPhaser reserves the right to make such changes as required. Unless otherwise stated, all specifications are nominal. PolyPhaser does not make any representation or warranty regarding the suitability of the part described herein for any particular purpose, and PolyPhaser does not assume any liability arising out of the use of any part or documentation.

T-Rev.D