

Type N F/F Bulkhead Coaxial RF Surge Protector, 10MHz - 1GHz,  
DC Block, 1.5kW, 120uJ, 20kA, Blocking Cap, Hole Mount



## 098-1013G-A

### Features

- Surge Current of 20kA
- Max Power 100W
- Frequency Range from 30kHz to 1.2GHz
- N Female to N Female connectors
- VSWR 1.1:1
- Multi-strike capability
- Mounting bracket attached
- RoHS compliant

### Applications

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

### Description

RF surge protector (also known as lightning arrester or surge arrester) 098-1013G-A from PolyPhaser, integrating a RF blocking capacitor with 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  
DC Handling

Gas Discharge Tube  
DC Pass

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		1.2	GHz
Impedance		50		Ohms
VSWR			1.1:1	
Insertion Loss			0.1	dB
Operating Voltage (DC)			48	Volts
Operating Current (DC)			2	A
Input Power, CW			100	Watts
Surge Current			20	kA
Turn On Voltage		300		Volts
Throughput Energy			120	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, 10MHz - 1GHz, DC Block, 1.5kW, 120uJ, 20kA, Blocking Cap, Hole Mount 098-1013G-A](#)

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### Mechanical Specifications

#### Size

Length	2.76 in [70.1 mm]
Width/Diameter	1 in [25.4 mm]
Height	2.25 in [57.15 mm]
Weight	0.35 lbs [158.76 g]
Housing Material and Plating	Aluminum

#### Configuration

Input Connector	N Female
Output Connector	N Female

### Environmental Specifications

#### Temperature

Operating Range	-40 to +85 deg C
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Ingress Protection (IP) Rating	IP67
Humidity	90%

### Compliance Certifications

RoHS Compliant	Yes
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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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URL:

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.

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098-1013G-A CAD Drawing

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
A	PRODUCTION RELEASE	4/16/2021	DWR

  

**HARDWARE KIT INCLUDES:**

QTY	DESCRIPTION
1	O-RING 114 EPDM
1	WASHER 5/8 410 SS
1	NUT 5/8-24 303 HEX SS
2	WASHER 10 INT 4-10 SS
1	NUT 10-32 HEX 18-8 SS
1	SCREW 10-32 X .75 HEX MS 18-8 SS

UNLESS OTHERWISE SPECIFIED LEADING DIMENSIONS ARE INCHES DIMENSIONS IN [ ] ARE MILLIMETERS

**TOLERANCES:**

.X = ±.2 [5.08]	FRACTIONS ± 1/32	ANGLES ± 1°
.XX = ±.02 [ .51]	.XXX = ±.005 [ .13]	CABLE LENGTH (L) TOLERANCES:
L ≤ 12 [305] = ±.1 [25] / -0		
12 [305] < L ≤ 60 [1524] = ±.1 [25] / -0		
60 [1524] < L ≤ 120 [3048] = ±.1 [25] / -0		
120 [3048] < L ≤ 300 [7620] = ±.1 [25] / -0		
300 [7620] < L = +5%L / -0		

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

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THIRD-ANGLE PROJECTION

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SHEET 1 OF 1

SCALE 1:1

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SIZE	CAGE CODE	DRAWN BY	PART NUMBER	REV
A	30992	DMAY	098-1013G-A	A