

Type N F/F Bulkhead Coaxial RF Surge Protector, DC - 6GHz, 1000W, IP67, 60 V Max., 2.5mJ, 20kA, Gas Discharge Tube



GTH-NFF-AL

Features

- Surge current of 20kA
- Max Power 1000W(RMS)
- Frequency range from DC to 6 GHz
- N-type Female connectors
- Waterproof IP67 rated
- DC Pass
- VSWR <1.4
- CE & RoHS compliant
- Directional

Applications

- WiFi
- GPS
- Land mobile radio

Description

RF surge protector (also known as lightning arrester) GTH-NFF-AL from PolyPhaser utilizing a proprietary gas tube surge protection technology protects critical hardware from lightening events 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

Gas Discharge Tube
DC Pass

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		6	GHz
Impedance		50		Ohms
VSWR		1.1:1	1.4:1	
Insertion Loss		0.1	0.25	dB
Operating Voltage (DC)			60	Volts
Operating Current (DC)			90	A
Input Power, CW			1	kWatts
Surge Current IEC 61000-4-5 8/20µs waveform			20	kA
Throughput Energy			2.5	mJ
Sparkover Impulse Voltage @1000V/µs		500		Volts

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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Sparkover Voltage (DC)	650 ±20%	Volts
Holdover Voltage @<150ms	80	Volts

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 3	3 to 4	4 to 6			GHz
VSWR, Typ	1.1:1	1.2:1	1.4:1			

Mechanical Specifications

Size

Length	2.2 in [55.88 mm]
Width/Diameter	0.86 in [21.84 mm]

Configuration

Input Connector	N Female
Output Connector	N Female

Environmental Specifications

Temperature

Operating Range	-55 to 85 deg C
Ingress Protection (IP) Rating	IP67

Compliance Certifications (see [product page](#) for current document)

Plotted and Other Data

Notes:

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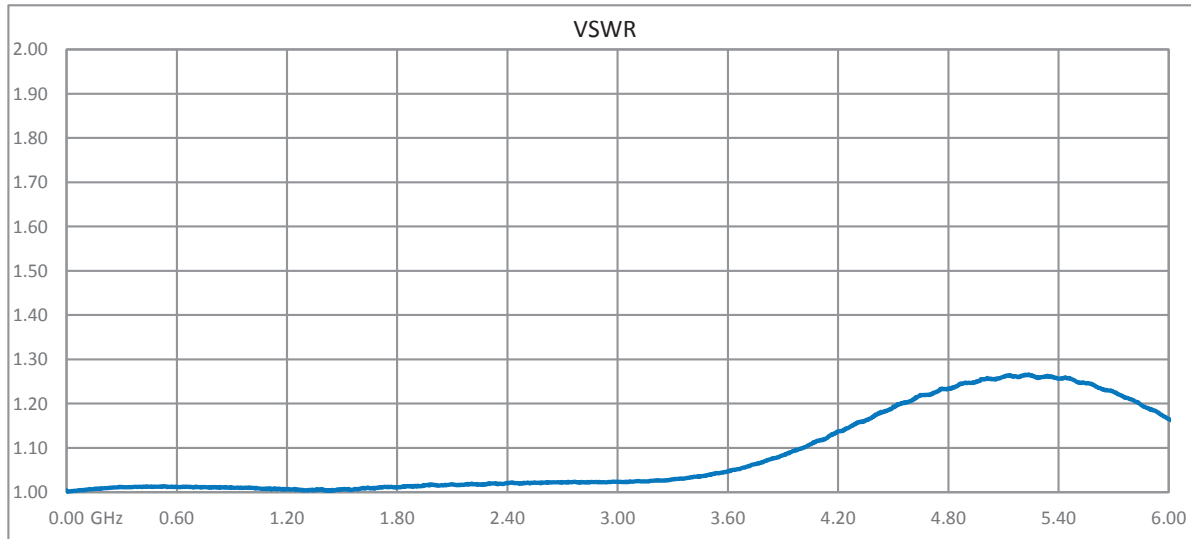


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Typical Performance Data

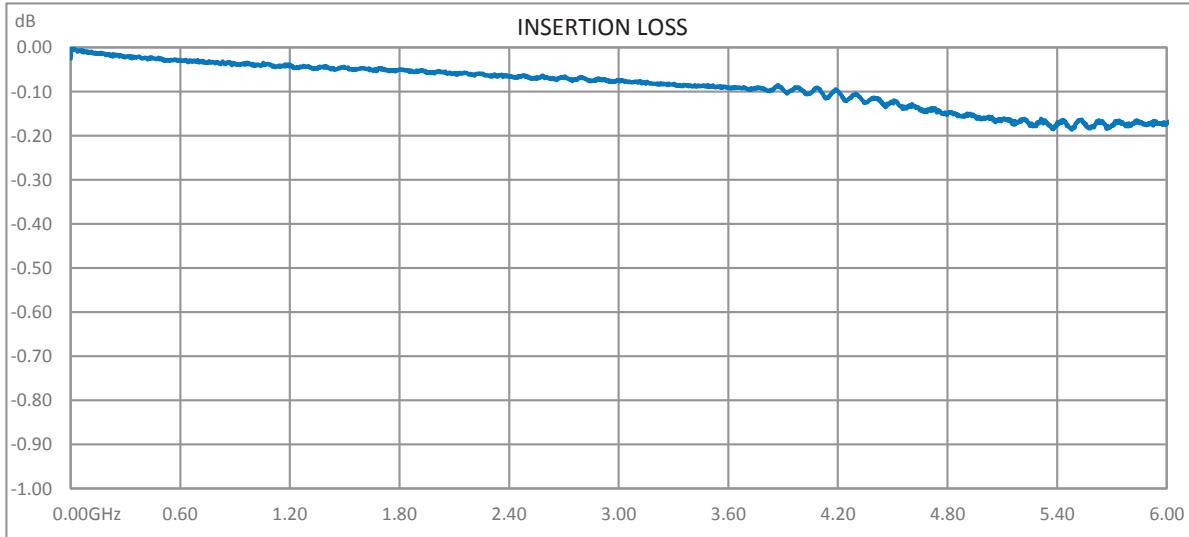


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PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, 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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URL: <https://www.polyphaser.com/type-n-surge-protector-6ghz-4ghz-gas-discharge-tube-gth-nff-al>

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GTH-NFF-AL CAD Drawing

