

Type N F/M Bulkhead Coaxial RF Surge Protector, DC - 6GHz,
90W, IP67, 90 V Max., 5mJ, 20kA, Gas Discharge Tube



GT-NFM-AL

Features

- Surge current of 20kA
- Max Power 90W(RMS)
- Frequency range from DC to 6 GHz
- N Female to N Male connectors
- Waterproof IP67 rated
- DC Pass
- VSWR <1.4:1
- CE & RoHS compliant
- Bidirectional

Applications

- WiFi
- GPS
- Land mobile radio

Description

RF surge protector (also known as lightning arrester or surge arrestor) GT-NFM-AL 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
DC Handling

Gas Discharge Tube
DC Pass

| Description | Minimum | Typical | Maximum | Units |
|---------------------------------|---------|---------|---------|-------|
| Frequency Range | DC | | 6 | GHz |
| Impedance | | 50 | | Ohms |
| VSWR | | | 1.4:1 | |
| Insertion Loss | | | 0.25 | dB |
| Operating Voltage (DC) | | | 90 | Volts |
| Input Power, CW | | | 90 | Watts |
| 90W @ 30MHz | | | | |
| 9W @ 3GHz | | | | |
| Surge Current | | | 20 | kA |
| @ IEC 61000-4-5 8/20µs WAVEFORM | | | | |
| Turn On Voltage | | 150 | | Volts |
| Throughput Energy | | | 5 | mJ |
| Sparkover Impulse Voltage | | 500 | | Volts |

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/M Bulkhead Coaxial RF Surge Protector, DC - 6GHz, 90W, IP67, 90 V Max., 5mJ, 20kA, Gas Discharge Tube GT-NFM-AL](#)

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500 Volts @ 1000V/μs

| | | |
|---------------------------------------|----------|-------|
| Sparkover Voltage (DC) | 300 ±20% | Volts |
| Holdover Voltage 80 Volts @ <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 | | | |
| Insertion Loss, Max | 0.1 | 0.25 | | | | dB |

Mechanical Specifications

Size

| | |
|----------------|--------------------|
| Length | 2.3 in [58.42 mm] |
| Width/Diameter | 0.86 in [21.84 mm] |

Configuration

| | |
|------------------|----------|
| Input Connector | N Female |
| Output Connector | N Male |

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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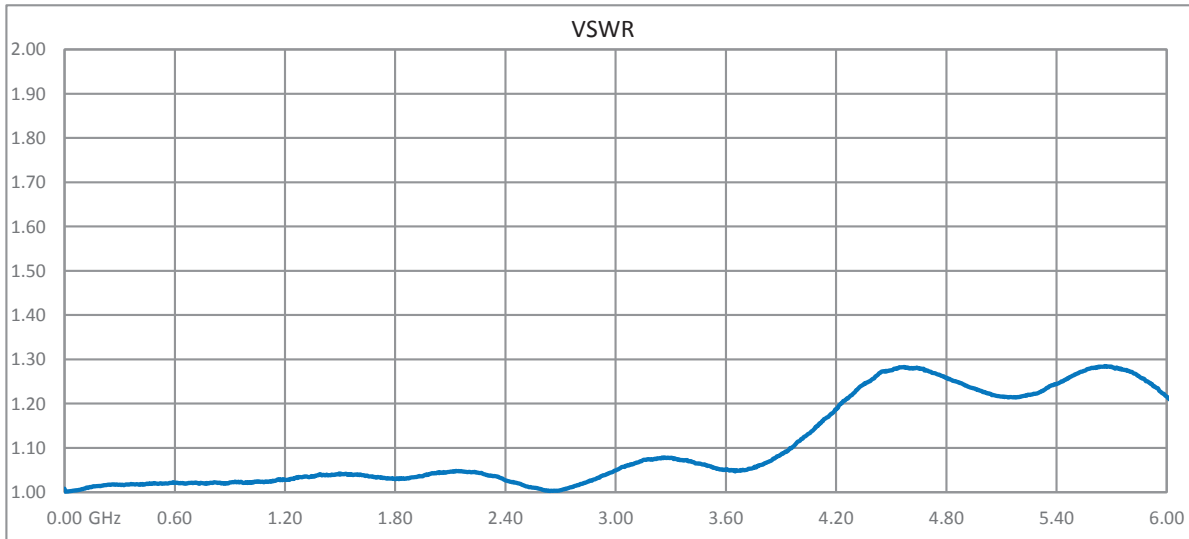


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Typical Performance Data



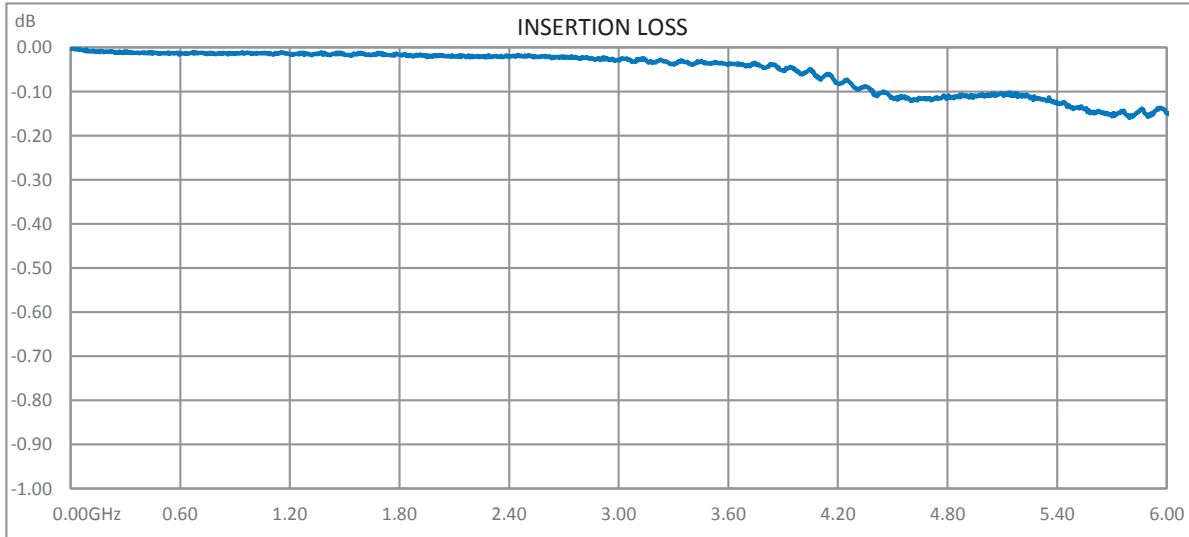
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PolyPhaser protects and increases the reliability of global RF communications networks, including transportation, telecommunications, defense, security and industrial applications, with superior RF surge protection technologies including DC Block, 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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GT-NFM-AL CAD Drawing

