

Type N F/M Bulkhead Coaxial RF Surge Protector, DC - 6GHz,  
90W, IP67, 60 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 arrester) 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)			60	Volts
Operating Current (DC)			10	A
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

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, 60 V Max., 5mJ, 20kA, Gas Discharge Tube GT-NFM-AL](#)

Type N F/M Bulkhead Coaxial RF Surge Protector, DC - 6GHz,  
90W, IP67, 60 V Max., 5mJ, 20kA, Gas Discharge Tube



## GT-NFM-AL

Sparkover Impulse Voltage 500 Volts @ 1000V/μs	500	Volts
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]
Weight	0.1 lbs [45.36 g]

### 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

RoHS  
CE

## Plotted and Other Data

Notes:

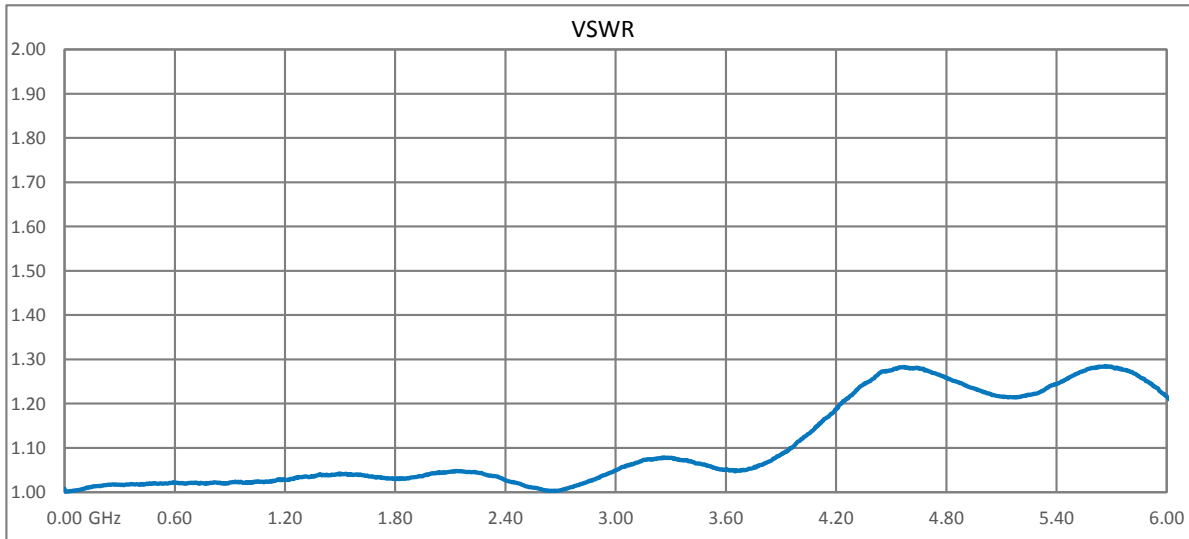
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[Type N F/M Bulkhead Coaxial RF Surge Protector, DC - 6GHz, 90W, IP67, 60 V Max., 5mJ, 20kA, Gas Discharge Tube GT-NFM-AL](#)

Type N F/M Bulkhead Coaxial RF Surge Protector, DC - 6GHz,  
90W, IP67, 60 V Max., 5mJ, 20kA, Gas Discharge Tube



## GT-NFM-AL

### Typical Performance Data

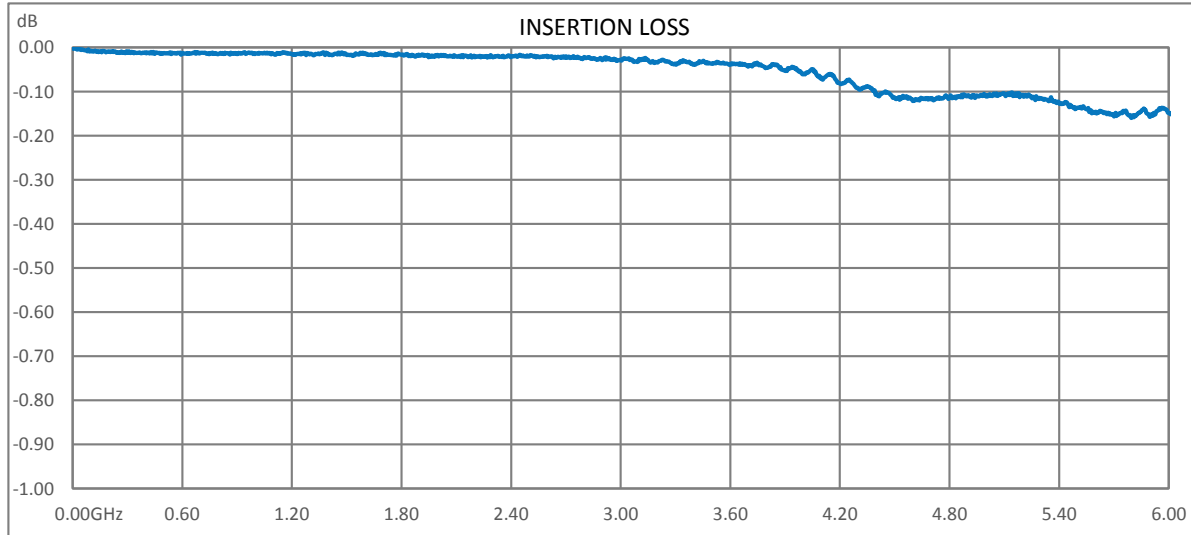


Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[Type N F/M Bulkhead Coaxial RF Surge Protector, DC - 6GHz, 90W, IP67, 60 V Max., 5mJ, 20kA, Gas Discharge Tube GT-NFM-AL](#)

Type N F/M Bulkhead Coaxial RF Surge Protector, DC - 6GHz,  
90W, IP67, 60 V Max., 5mJ, 20kA, Gas Discharge Tube



## GT-NFM-AL



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/M Bulkhead Coaxial RF Surge Protector, DC - 6GHz, 90W, IP67, 60 V Max., 5mJ, 20kA, Gas Discharge Tube GT-NFM-AL](https://www.polyphaser.com/type-n-surge-protector-6ghz-4ghz-gas-discharge-tube-gt-nfm-al-p.aspx)

URL: <https://www.polyphaser.com/type-n-surge-protector-6ghz-4ghz-gas-discharge-tube-gt-nfm-al-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.

Type N F/M Bulkhead Coaxial RF Surge Protector, DC - 6GHz, 90W,  
IP67, 60 V Max., 5mJ, 20kA, Gas Discharge Tube

GT-NFM-AL CAD Drawing

