

TNC F/F Bulkhead Coaxial RF Surge Protector, DC - 7GHz,  
DC Pass, 90W, IP67, 4mJ, 20kA, Gas Discharge Tube



## GT-TFF-AL

### Features

- Surge current of 20kA
- Max Power 90W(RMS)
- Frequency range from DC to 7 GHz
- TNC-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 or surge arrestor) GT-TFF-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		7	GHz
Impedance		50		Ohms
VSWR		1.1:1	1.4:1	
Insertion Loss		0.1	0.5	dB
Operating Current (DC)			90	A
Input Power, CW			90	Watts
Surge Current IEC 61000-4-5 8/20µs waveform			20	kA
Throughput Energy			4	mJ
Sparkover Impulse Voltage @1000V/µs		500		Volts
Sparkover Voltage (DC)		300 ±20%		Volts
Holdover Voltage		80		Volts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[TNC F/F Bulkhead Coaxial RF Surge Protector, DC - 7GHz, DC Pass, 90W, IP67, 4mJ, 20kA, Gas Discharge Tube GT-TFF-AL](#)

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@<150ms

### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2	2 to 3	3 to 4	4 to 7		GHz
VSWR, Typ	1.1:1	1.25:1	1.4:1	1.4:1		
Insertion Loss, Max	0.1	0.1	0.25	0.5		dB

### Mechanical Specifications

#### Size

Length	2.36 in [59.94 mm]
Width/Diameter	0.86 in [21.84 mm]
Weight	0.2 lbs [90.72 g]

#### Configuration

Input Connector	TNC Female
Output Connector	TNC Female

### Environmental Specifications

#### Temperature

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

### Compliance Certifications

CE

### Plotted and Other Data

Notes:

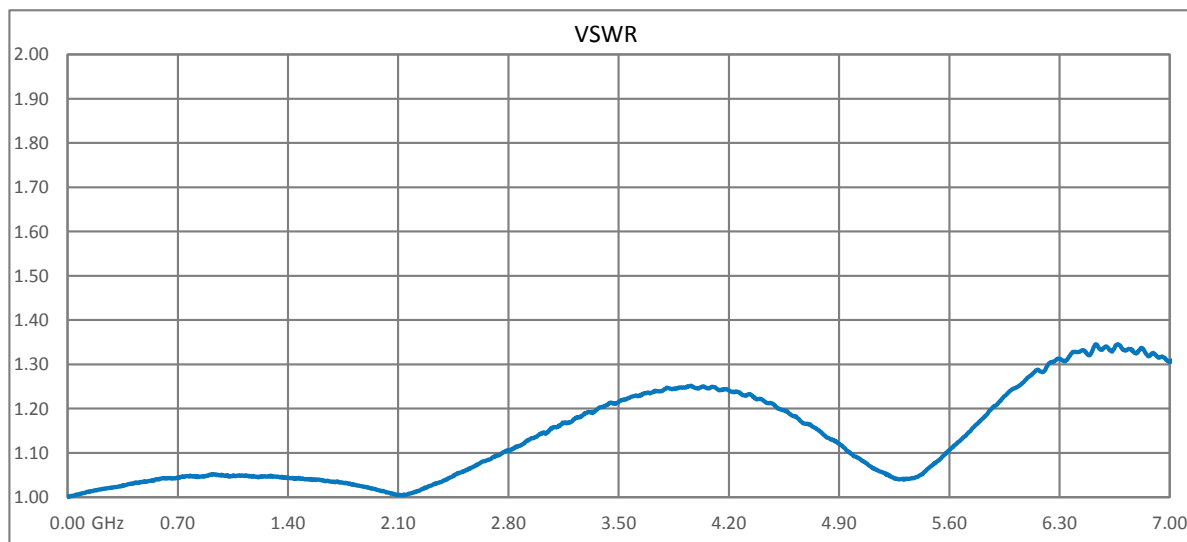
Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
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## GT-TFF-AL

### Typical Performance Data

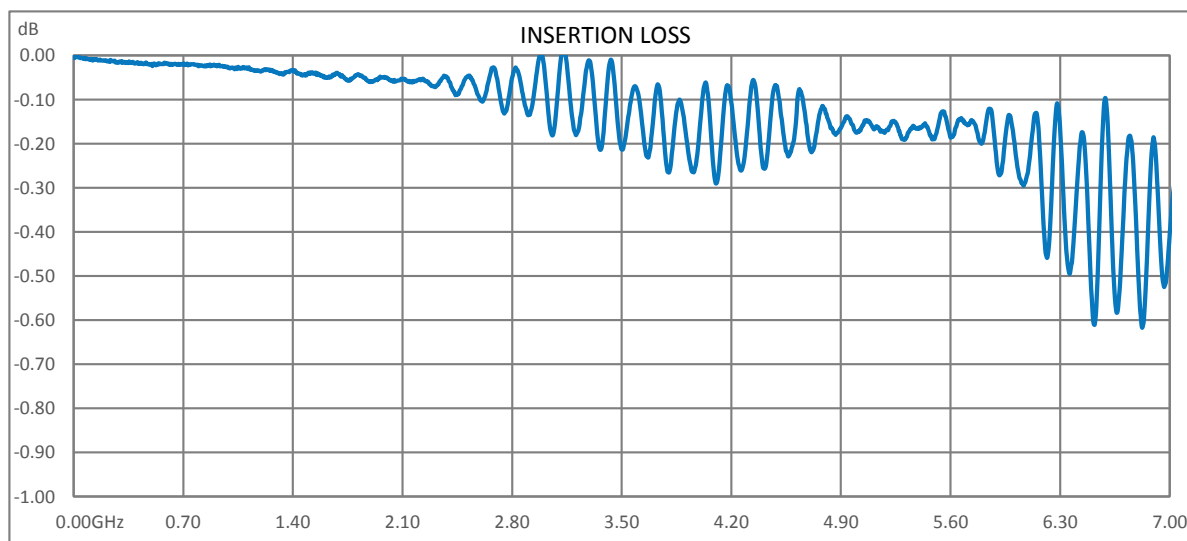


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## GT-TFF-AL



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.

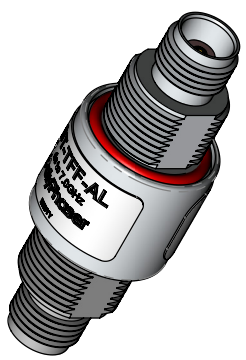
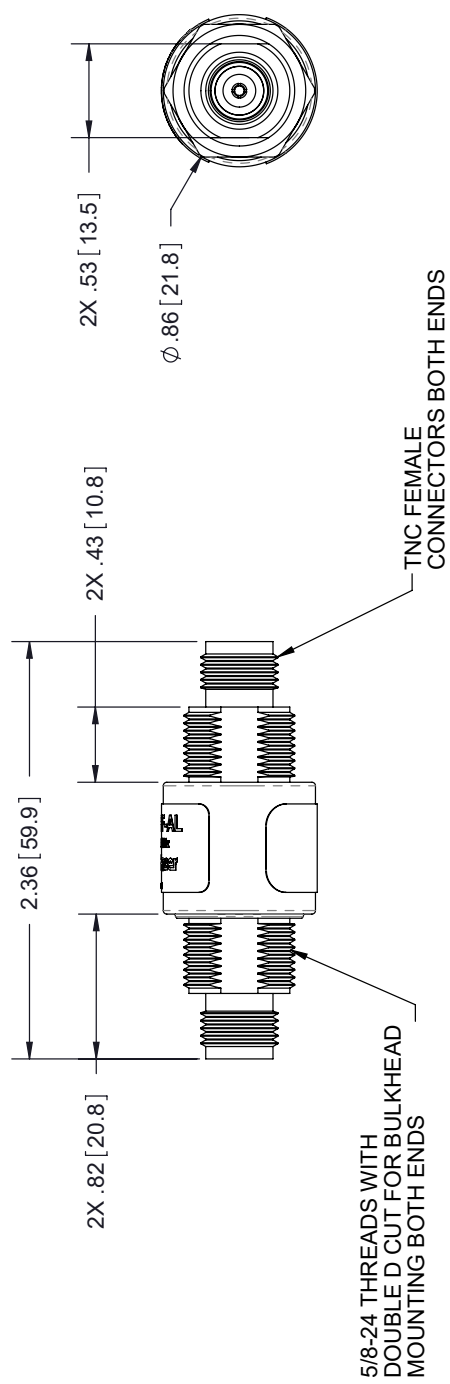
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GT-TFF-AL CAD Drawing



HARDWARE KIT INCLUDES:	
QTY.	DESCRIPTION
1	BRACKET MOUNTING AL 5052-H32
2	NUT 8-32 HEX 18-8 SS
2	WASHER #8 410 SS INTERNAL
2	SCREW 8-32x.50 PHIL MS PAN 18-8 SS

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THIRD-ANGLE PROJECTION

**PolyPhaser**

GAS TUBE NON-REPLACEABLE dc-7GHz 50-100 TNC FEM

TITLE

SIZE A

CAGE 30992

PROD CAT RFP

DRAWING NUMBER GT-TFF-AL

REV A

SHEET 1 of 1

SCALE 1:1