

75 Ohm Type F F/F Bulkhead Coaxial RF Surge Protector, DC - 2.5GHz, 50W, IP67, 60 V Max., 10kA, Gas Discharge Tube



## GT75-FFF

### Features

- Surge current of 10kA
- Max Power 50W(RMS)
- Frequency range from DC to 2.5 GHz
- F-type Female connectors
- Waterproof IP67 rated
- DC Pass
- CE & RoHS compliant
- Bidirectional

### Applications

- WiFi
- GPS
- Land mobile radio

### Description

RF surge protector (also known as lightning arrester) GT75-FFF 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		2.5	GHz
Impedance		75		Ohms
VSWR		1.1:1	1.4:1	
Insertion Loss		0.12	0.2	dB
Operating Voltage (DC)			60	Volts
Operating Current (DC)			6	A
Input Power, CW			50	Watts
Surge Current IEC 61000-4-5 8/20 $\mu$ s waveform (multiple)			10	kA
Turn On Voltage		300 $\pm$ 20%		Volts

Click the following link (or enter part number in "SEARCH" on website) to obtain additional part information including price, inventory and certifications:  
[75 Ohm Type F F/F Bulkhead Coaxial RF Surge Protector, DC - 2.5GHz, 50W, IP67, 60 V Max., 10kA, Gas Discharge Tube GT75-FFF](#)

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### Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 1	1 to 2	2 to 2.5			GHz
VSWR, Typ	1.1:1	1.2:1	1.4:1			
Return Loss, Typ	27	20	14			dB

### Mechanical Specifications

#### Size

Length	2.08 in [52.83 mm]
Weight	1 lbs [453.59 g]
Housing Material and Plating	Brass, Tri-Metal

#### Configuration

Input Connector	F Female
Output Connector	F Female

### Environmental Specifications

#### Temperature

Operating Range	-50 to +85 deg C
Ingress Protection (IP) Rating	IP67
Humidity	95%

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### Compliance Certifications

### 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.

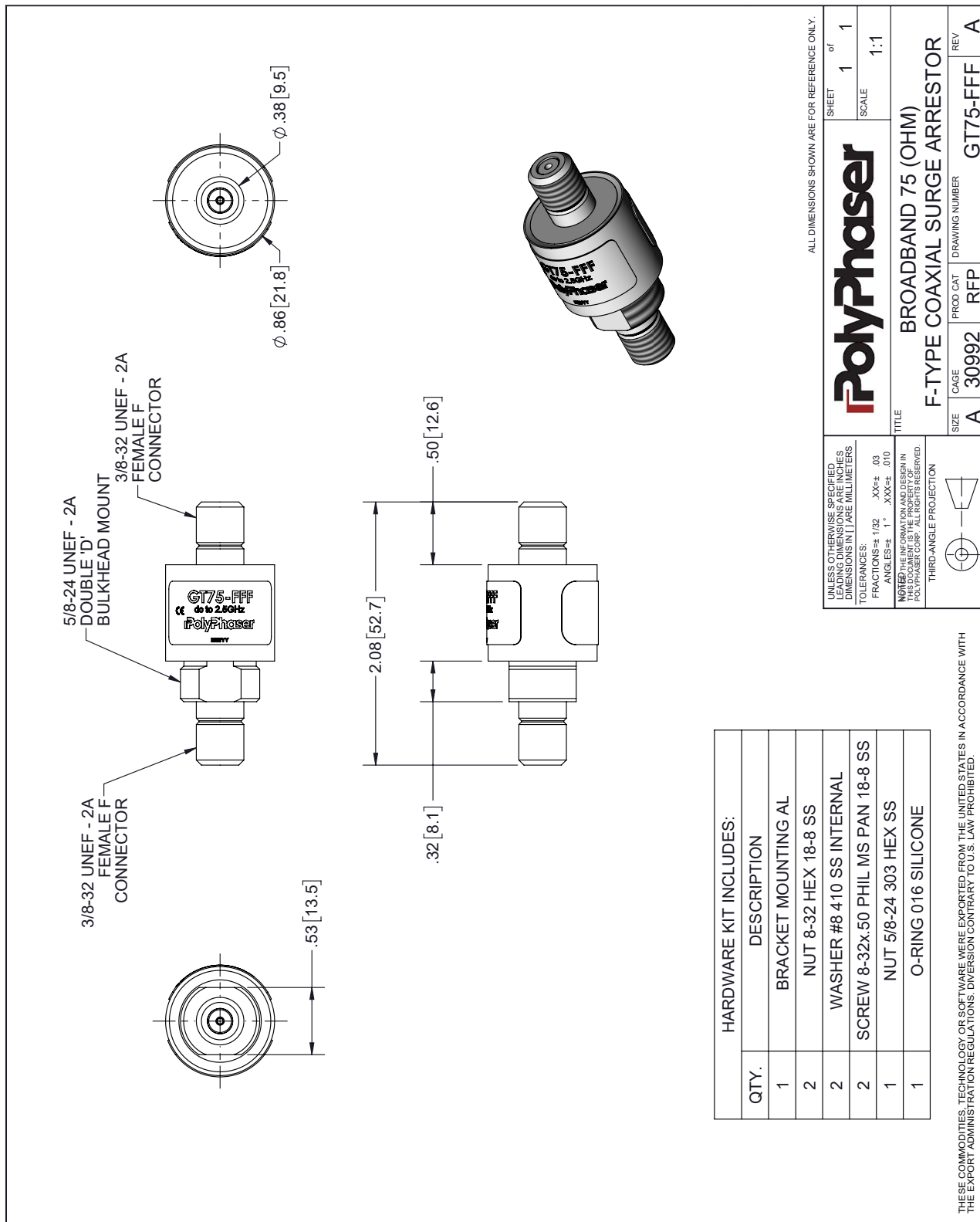
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URL: <https://www.polyphaser.com/type-f-surge-protector-2.5ghz-2ghz-gas-discharge-tube-gt75-fff-p.aspx>

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GT75-FFF CAD Drawing



HARDWARE KIT INCLUDES:

QTY.	DESCRIPTION
1	BRACKET MOUNTING AL
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
1	NUT 5/8-24 303 HEX SS
1	O-RING 016 SILICONE