![PolyPhaser an INFINITE brand]

7/16 M/F Bulkhead Coaxial RF Surge Protector, DC - 2.7GHz, 400W, IP67, 60 V Max., 420uJ, 20kA, Gas Discharge Tube

RGT-DFM

Features

- Surge current of 20kA
- Max Power 400W(RMS)
- Frequency range from DC to 2.7 GHz
- DIN Male to DIN Female connectors
- Waterproof IP67 rated

- DC Pass
- VSWR <1.3
- CE & RoHS compliant
- Bidirectional

Applications

- WiFi
- GPS

- Land mobile radio

Description

RF surge protector (also known as lightning arrester or surge arrestor) RGT-DFM 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   Gas Discharge Tube
DC Handling   DC Pass

Description	Minimum	Typical	Maximum	Units
Frequency Range	DC		2.7	GHz
Impedance		50		Ohms
VSWR		1.1:1	1.2:1	
Return Loss			20	dB
Insertion Loss			0.1	dB
Operating Voltage (DC)			60	Volts
Resistance (DC)			20	mOhms
Input Power, CW			400	Watts
Surge Current IEC 61000-4-5 8/20µs waveform			20	kA
Turn On Voltage		300		Volts
Throughput Voltage with 8/20µ 2kA Surge Pulse			375	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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Throughput Energy	420	uJ
@ 8/20µs 2kA Surge Pulse		

Specifications by Frequency

Description	F1	F2	F3	F4	F5	Units
Frequency Range	DC to 2	2 to 2.7				GHz
Return Loss, Max	30	20				dB

Mechanical Specifications

Size

Length	2.68 in [68.07 mm]
Width/Diameter	1.4 in [35.56 mm]
Weight	0.8 lbs [362.87 g]

Configuration

Input Connector	7/16 DIN Male
Output Connector	7/16 DIN Female

Environmental Specifications

Temperature

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

Compliance Certifications

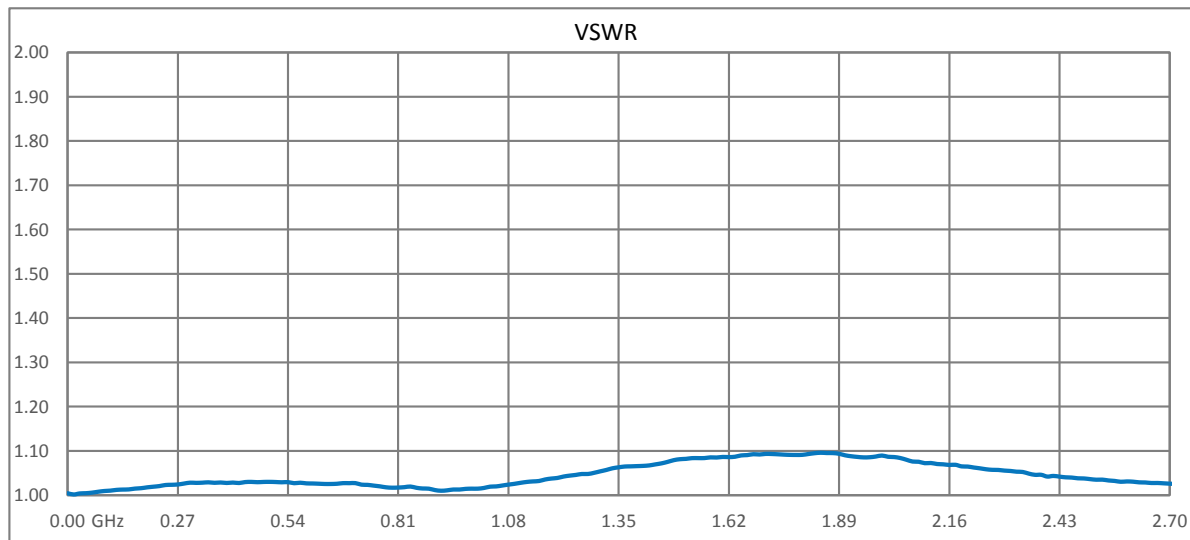CE

Plotted and Other Data

Notes:

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Typical Performance Data

VSWR graph: x-axis from 0.00 GHz to 2.70 GHz (0.00 GHz, 0.27, 0.54, 0.81, 1.08, 1.35, 1.62, 1.89, 2.16, 2.43, 2.70), y-axis VSWR from 1.00 to 2.00.
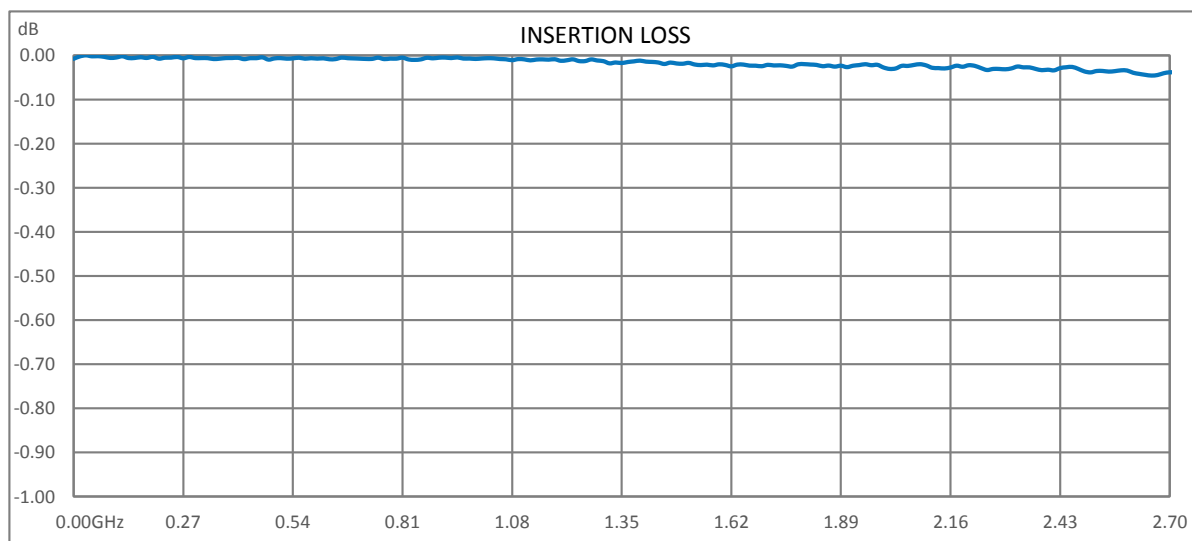
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INSERTION LOSS

dB scale from 0.00 to -1.00 (increments of -0.10); frequency axis: 0.00GHz, 0.27, 0.54, 0.81, 1.08, 1.35, 1.62, 1.89, 2.16, 2.43, 2.70

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/7-16-surge-protector-2.7ghz-gas-discharge-tube-rgt-dfm-p.aspx

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RGT-DFM CAD Drawing

M29 X 1.5 THREAD MALE
(DIN MALE)

1.25 [31.8]

2.68 [68]

.83 [21]

.99 [25]

Ø 1.40 [35.6]

M29 X 1.5 THREAD FEMALE
(DIN FEMALE)

RGT-DFM
dc to 2.7GHz
PolyPhaser
CE

HARDWARE KIT INCLUDES:

QTY	DESCRIPTION
1	NUT M29 X 1.5 SST DIN
1	WASHER 1.15ID FLAT SST TYPE 304
1	O-RING 025 SILICONE

ALL DIMENSIONS SHOWN ARE FOR REFERENCE ONLY.

PolyPhaser

TITLE

DC TO 2.7 GHz
REPLACEABLE GAS TUBE

SIZE	CAGE	PROD CAT	DRAWING NUMBER	REV
A	30992	RFP	RGT-DFM	A

SHEET 1 of 1
SCALE 1:1

UNLESS OTHERWISE SPECIFIED
LEADING DIMENSIONS ARE INCHES
DIMENSIONS IN [ ] ARE MILLIMETERS
TOLERANCES:
FRACTIONS=± 1/32   .XX=± .03
ANGLES=± 1°   .XXX=± .010

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