

## Gas Discharge Tube Lightning Arrestor BNC Connectors and a Replaceable Protective Element



### Features:

- ✦ Frequency to 2.5 GHz
- ✦ Excellent RF Performance
- ✦ Multiple Strike Capability
- ✦ 40 kA Surge Protection
- ✦ Bi-directional Protection
- ✦ Rugged and Waterproof

### RF Specifications

- ✦ Nominal Impedance – 50 Ω

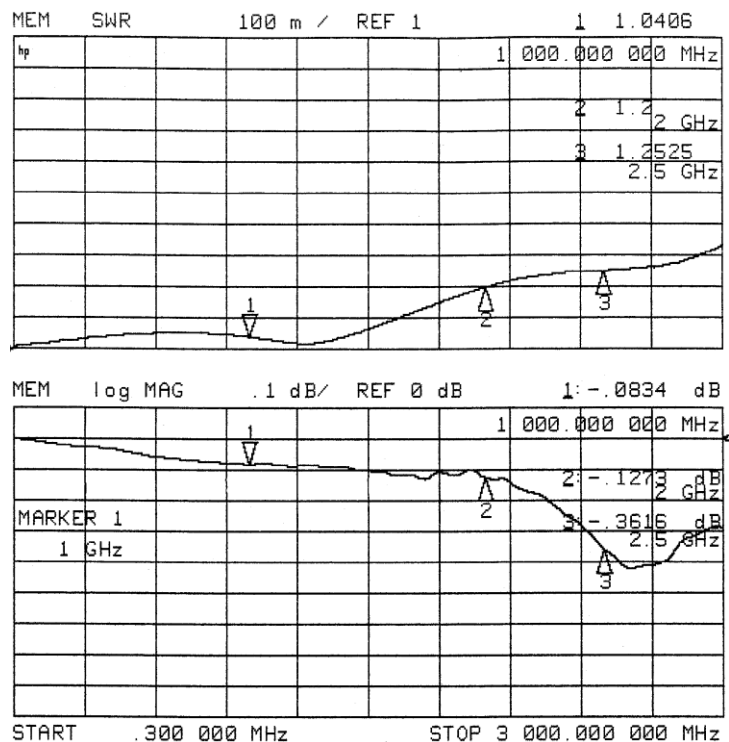
Frequency (GHz)	VSWR	Insertion Loss (dB)
dc – 2	1.25 Max	0.15 Max
2 – 2.5	1.4 Max	0.4 Max

- ✦ Through Current: 65V/7.5A Max
- ✦ RF Power: See Protection Voltage table

### Transient Specifications

(1.2X50µs Voltage / 8X20µs Current waveform)

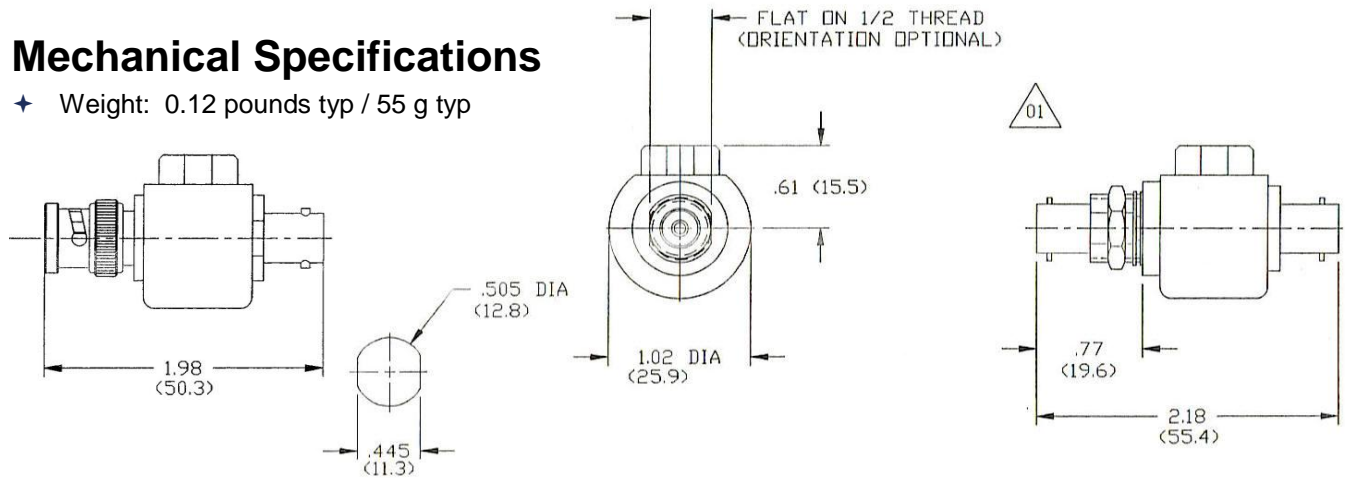
- ✦ Maximum Transient: 40 kA (8x20µs)
- ✦ Multiple Strike: 20 kA 10 times
- ✦ Let-through: See Protection Voltage table
- ✦ Replaceable Gas Discharge Tube 90V to 600V



Typical VSWR and Insertion Loss

### Mechanical Specifications

✦ Weight: 0.12 pounds typ / 55 g typ



### Environmental Specifications

<b>Temperature Range</b>	-40°C to +90°C
<b>Salt Fog</b>	MIL-STD-202 Method 101D / Condition B (35°C/96 hrs)
<b>Immersion</b>	MIL-STD-202 Method 104A / Condition A (65°C to 25°C w/NaCl – 2 cycles)
<b>Moisture Resistance</b>	MIL-STD-202 Method 106E (65°C/98% RH condensing/240 hrs)
<b>Temperature Shock</b>	MIL-STD-202 Method 107D / Condition B-1 (25 cycles -65°C to +125°C)
<b>Life (Elevated Temperature)</b>	MIL-STD-202 Method 108A / Condition A (96 hours at 100°C)
<b>Dust and Waterproof Rating</b>	IEC529 IP68 (dust-tight and water proof 24 hrs / 1 m)
<b>Vibration</b>	MIL-STD-202 Method 204D / Condition D (10Hz-2kHz 0.06"DA/20g)
<b>Mechanical Shock</b>	MIL-STD-202 Method 213 / Condition A (50g/11ms ~24")

### Material and Finish

Component	Material	Finish
Outer Parts	Brass	Guardplate™
Center Contact	BeCu	Gold
Insulator	PTFE	
Gasket	Si Rubber	

Guardplate™ is an alloy finish with the PIM and conductivity of Silver and the durability and anti-tarnish properties of Nickel.

<sup>1</sup> Use the voltage code in the part number

<sup>2</sup> For multiple carriers, sum of peak voltages should not exceed 60% of the protection voltage

<sup>3</sup> Input is 6kV @ 1.2x50µs/ 3kA @ 8x20µs.

### Protection Voltage

Protection Voltage	Voltage Code <sup>1</sup>	RF Power (W) <sup>2</sup>	Let-through (V <sub>pk</sub> / mJ) <sup>3</sup>
90	09	37	600 / 0.3
150	15	95	600 / 0.3
230	23	240	650 / 0.5
350	35	550	800 / 0.7
470	47	1000	1200 / 2.2
600	60	1600	1500 / 4.4

### Part Number

PTR BNxBNF XX S

