

75Ω Gas Discharge Tube Lightning Arrestor BNC Connectors and a Replaceable Protective Element



Features:

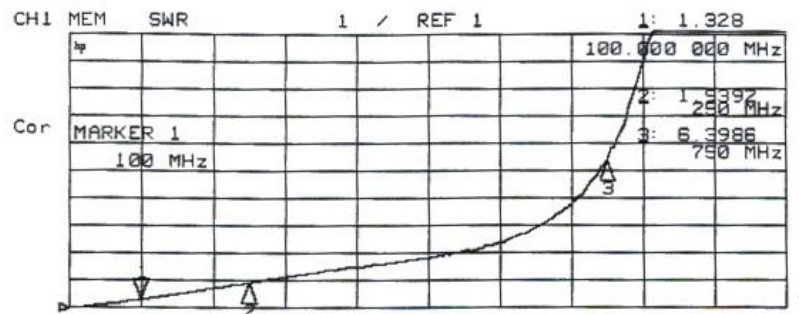
- ✦ Frequency to 750MHz
- ✦ Excellent RF Performance
- ✦ Multiple Strike Capability
- ✦ 40kA Surge Protection
- ✦ Bi-directional Protection
- ✦ Rugged and Waterproof

RF Specifications

- ✦ Nominal Impedance – 75Ω

| Frequency (MHz) | VSWR | Insertion Loss (dB) |
|-----------------|---------|---------------------|
| dc – 250 | 1.5 avg | 0.10 max |
| 250 – 750 | 2.0 avg | 0.14 max |

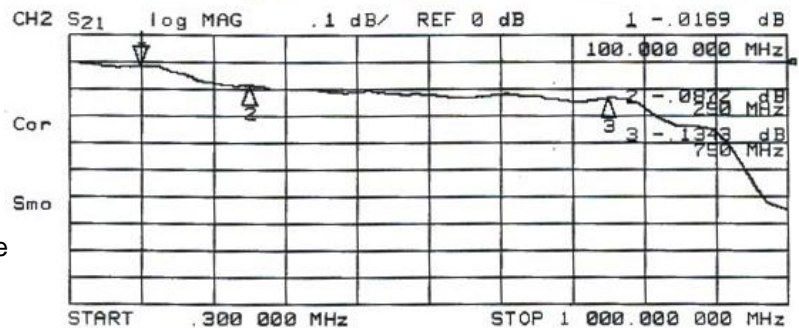
- ✦ Through Current: 65V/7.5A Max
- ✦ RF Power: See Protection Voltage table



Transient Specifications

(1.2X50μs Voltage / 8X20μs Current waveform)

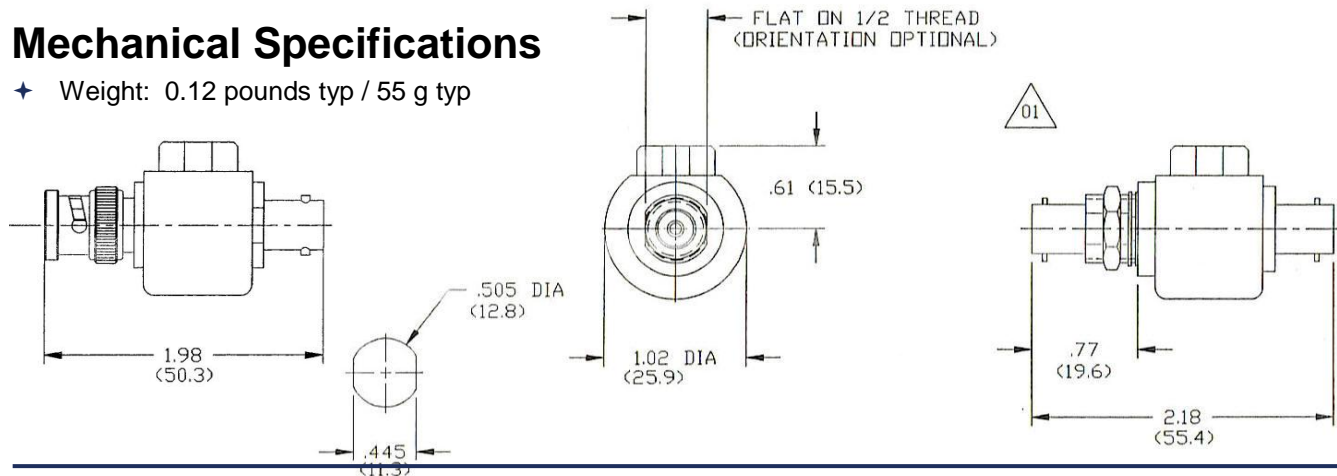
- ✦ Maximum Transient: 40kA (8x20μs)
- ✦ Multiple Strike: 20kA 10 times
- ✦ Let-through: See Protection Voltage table
- ✦ Replaceable Gas Discharge Tube 90V to 600V



Typical VSWR and Insertion Loss

Mechanical Specifications

✦ Weight: 0.12 pounds typ / 55 g typ



Environmental Specifications

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

¹ Use the voltage code in the part number

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

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

Protection Voltage

| Protection Voltage | Voltage Code ¹ | RF Power (W) ² | Let-through (V _{pk} / mJ) ³ |
|--------------------|---------------------------|---------------------------|---|
| 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 B7XB7F XX S

