

## Gas Discharge Tube Lightning Arrestor N to SMA Connectors and a Replaceable Protective Element



### Features:

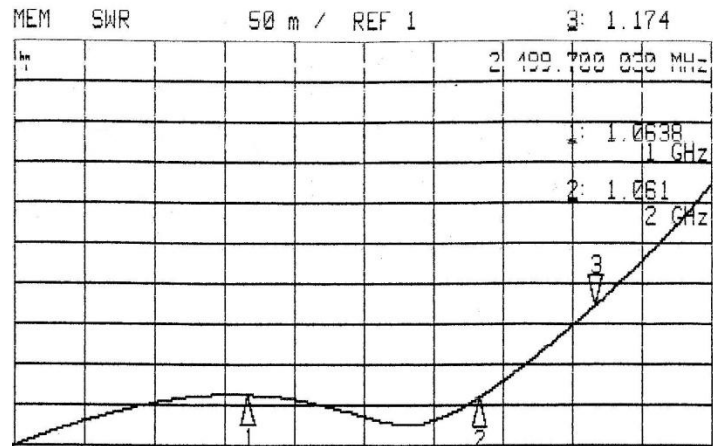
- ✦ Transition from rugged N to more compact SMA connector
- ✦ DC pass
- ✦ Multiple Strike Capability
- ✦ 40 kA Surge Protection
- ✦ Bi-directional Protection
- ✦ Rugged and Water Resistant

### RF Specifications

- ✦ Nominal Impedance – 50Ω

Frequency (GHz)	VSWR	Insertion Loss (dB)
dc – 2.0	1.15 Max	0.2 Max
2.0 – 2.5	1.25 Max	0.3 Max

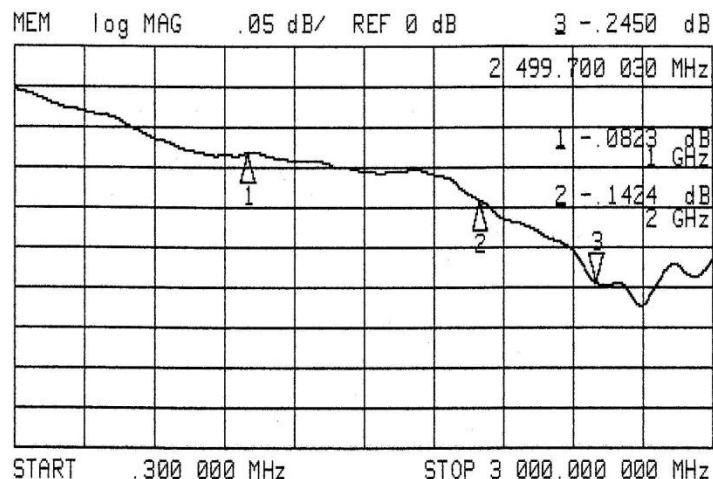
- ✦ Through Current: 68 Vdc/5A Maximum
- ✦ RF Power: See Protection Voltage table



### Transient Specifications

(1.2X50μs Voltage / 8X20μs Current waveform)

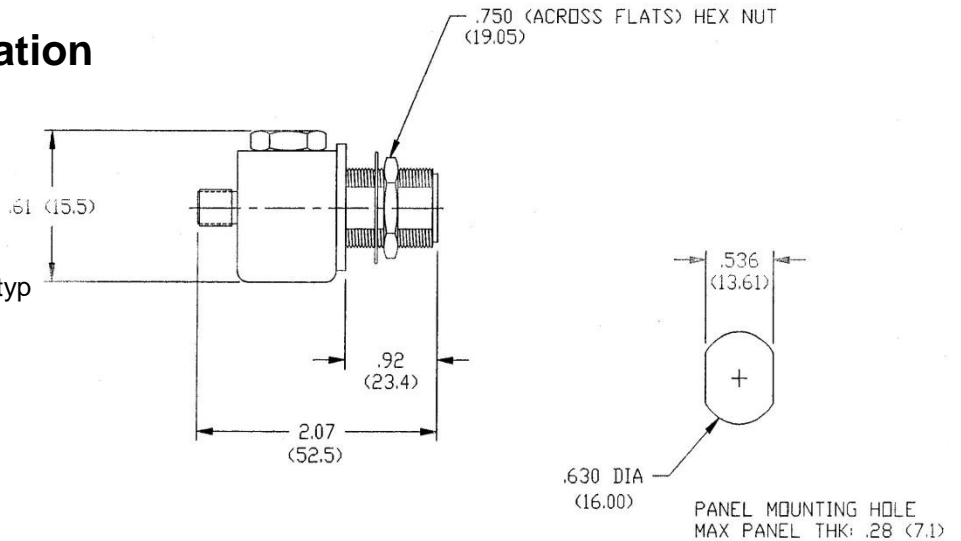
- ✦ Maximum Transient: 40 kA
- ✦ Multiple Strike: 20 kA 10 times
- ✦ Let-through: See Protection Voltage table
- ✦ Replaceable Gas Discharge Tube 90V to 1000V



Typical VSWR and Insertion Loss

### Mechanical Specification

- ✦ Mounting/Grounding:  $\phi$ .625 (15.9) bulkhead mount with environmental gasket. Can also be grounded by wire to grounding lug
- ✦ Weight: 0.2 pounds typ / 90 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")

### Protection Voltage

Protection Voltage <sup>4</sup>	Voltage Code <sup>1</sup>	RF Power (W) <sup>2</sup>	Let-through (V <sub>pk</sub> / $\mu$ J) <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

### Material and Finish

Component	Material	Finish
Outer Parts	Brass	Nickel
Center Contact	BeCu	Gold
Insulator	PTFE	-
Gasket	Elastomer	-

- <sup>1</sup> use voltage code in ordering part number
- <sup>2</sup> for multiple carrier sum of peak voltage should be less than 60% of protection voltage
- <sup>3</sup> input is 6kV 1.2x50 $\mu$ s / 3 kA 8x20 $\mu$ s waveform
- <sup>4</sup> for voltages greater than 600V, please contact NexTek

### Part Number

