

# Gas Discharge Tube Lightning Arrestor TNC connectors



#### Features:

- → Multiple Strike Capability
- → 40 kA Surge Protection
- + Rugged and Water Resistant
- + DC pass
- → Bi-directional Protection

### **RF Specifications**

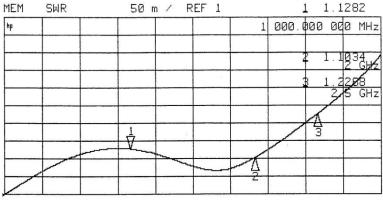
Nominal Impedance – 50Ω

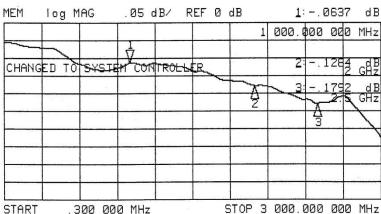
Frequency (GHz)	VSWR	Insertion Loss (dB)
dc – 2.5	1.25 Max	0.15 Max

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



- 8.2x50 / 8x20 Gas Discharge Tube 90V to 600V
- Maximum Transient: 40 kA (8x20μs)
- → Multiple Strike: 20kA ~10 times
- Let-through: See Protection Voltage table



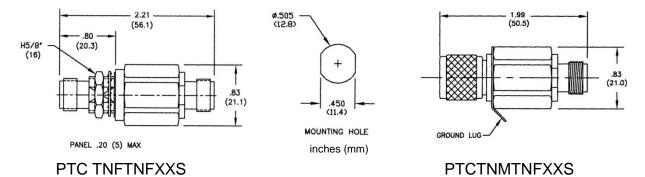


Typical VSWR and Insertion Loss

# Product Specification PTCTNxTNFxxS

#### **Mechanical Specifications**

- + Mounting/Grounding: Female to female by φ.500" (12.7mm) bulkhead mount with gasket or a bracket or wire lug to the bulkhead connector. Grounding of the male to female by an integral ground lug.
- → Weight: 0.12 pounds typ / 55 g typ



### **Environmental Specifications**

Temperature Range	-40°C to +90°C	
Temperature Shock	MIL-STD-202 107D /B-1 (25 cycles -65°C to +125°C)	
Dust and Waterproof Rating	IEC 529 IP65 (dust-tight and splash resistant)	
Moisture Resistance	MIL-STD-202 Method 106E (65°C to 25°C /98% RH 96hrs)	
Salt Fog	MIL-STD-202 Method 101D /A (96 hours at 35°C)	
Vibration	MIL-STD-202 Method 204 /D (10Hz-2 kHz 0.06"DA/20g)	
Mechanical Shock	MIL-STD-202 Method 213B /A (50Gpk/11ms)	
Immersion	MIL-STD-202 Method 104A /B (12" 65°C to 15 °C)	

## **Protection Voltage**

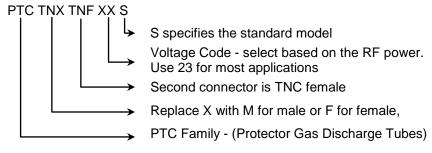
Protection Voltage <sup>4</sup>	Voltage Code <sup>1</sup>	RF Power (W) <sup>2</sup>	Let-through (V <sub>pk</sub> / μJ) <sup>3</sup>
90	09	37	600 / 0.3
150	15	95	600 / 0.3
230	23	240	650 / 0.5
350	35	550	800 / 0.7
470	47	1000	1200 / 2.2
600	60	1600	1500 / 2.2

# **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

#### **Part Number**



<sup>&</sup>lt;sup>2</sup> for single frequency signal; for multiple carrier sum of V<sub>peak</sub> should be less than 60% of Protection Voltage

<sup>&</sup>lt;sup>3</sup> input is 6kV 1.2x50μs / 3 kA 8x20μs waveform

<sup>&</sup>lt;sup>4</sup> for voltages greater than 600V, please contact NexTek