

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

Features:



Photo Shows 50Ω Version – Outline and Dimensions are Identical

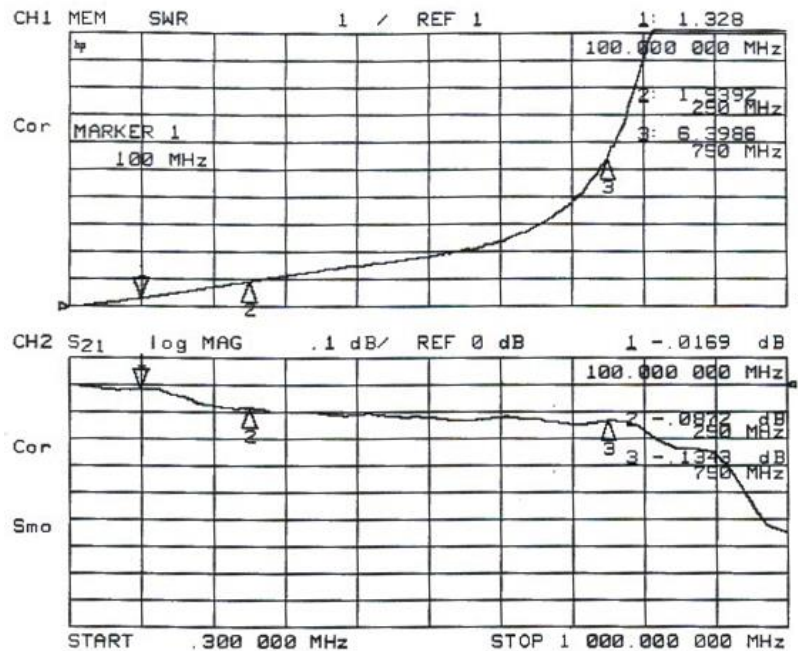
- ✦ DC pass
- ✦ Multiple Strike Capability
- ✦ 40 kA Surge Protection
- ✦ Bi-directional Protection
- ✦ Rugged and Water Resistant
- ✦ 75Ω TNC Connectors
- ✦ Performance to 750MHz

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

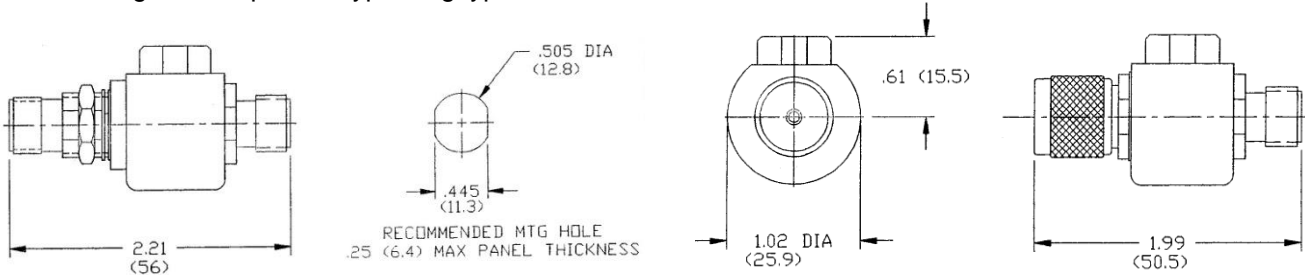
(1.2X50μs Voltage / 8X20μs Current waveform)

- ✦ Maximum Transient: 40 kA
- ✦ 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

- ✦ Mounting/Grounding: Female to female by $\phi .500"$ (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 Method 107D /Condition B-1 (25 cycles -65°C to +125°C)
Dust and Waterproof Rating	IEC 529 IP67 (dust-tight and waterproof 1hr / 1m)
Moisture Resistance	MIL-STD-202 Method 106E (65°C to 25 °C /98% RH 240hrs)
Salt Fog	MIL-STD-202 Method 101D /Condition A (96 hours at 35°C)
Vibration	MIL-STD-202 Method 204D /Condition D (10Hz-2kHz 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 ⁴	Voltage Code ¹	RF Power (W) ²	Let-through (V _{pk} / μ J) 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 / 2.2

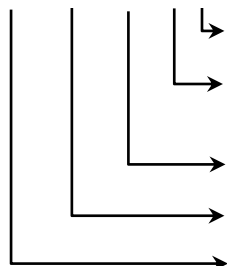
Material and Finish

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

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

Part Number

PTR T7x T7F xx S



- S specifies the standard model
- Voltage Code - select based on the RF power. Use 23 for most applications
- Second connector is TNC female
- Replace x with M for male or F for female,
- PTR Family - (Protector with Replaceable Gas Discharge Tubes)