

Wideband TNC to TNC Quarter Wave Lightning Protector 2.4 to 6.0 GHz (Normal and Reverse Polarity)

MEM

SWR



Features:

- **→ Low VSWR**
- Low Insertion Loss
- 45 kA Surge Protection
- → Covers UNII, ISM, 802.11 in one
- Normal and Reverse Polarity
- → Bi-directional Protection
- **Rugged and Weatherproof**

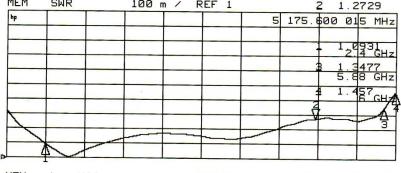
RF Specifications

Nominal Impedance 50Ω

Frequency (GHz)	VSWR typ / max	Loss (dB) max
2.4 - 5.0	1.05 / 1.25	0.15
4.8 - 6.0	1.30 / 1.50	0.20

★ Return Loss (dB typ/min): 32.5/23.2

→ RF Power: 0.13 kW_{avg}/1.0 kW_{pk}



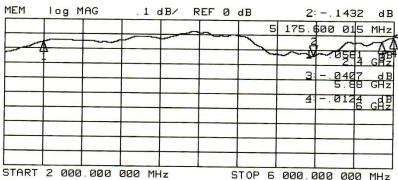
Transient Specifications

(1.2X50μs Voltage / 8X20μs Current waveform)

→ Maximum Transient: 45 kA_{pk} (8x20µs)

→ Multiple Strike: 30 kApk 10 times

+ Let Through (V_{peak}/μJ): 6.5V/3.5μJ Input: 6kV/3kA Output: into 50Ω

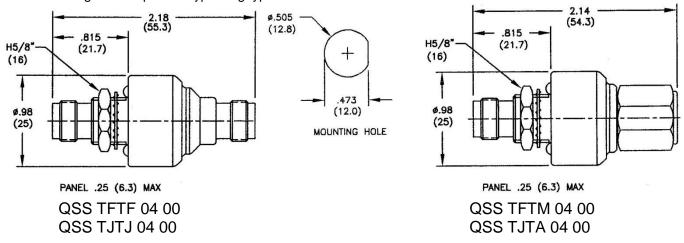


Typical VSWR and Insertion Loss



Mechanical Specifications

- Mounting/Grounding: φ.500 (12.7) bulkhead mount with environmental gasket. Grounding can also be via a bracket or wire lug to the bulkhead connector.
- → Weight: 0.15 pounds typ / 70 g typ



Environmental Specifications

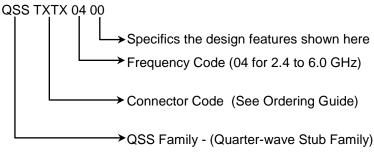
Temperature Range	-40oC to +90oC	
Salt Fog	MIL-STD-202 Method 101D / Condition B (35oC/96 hrs)	
Immersion	MIL-STD-202 Method 104A / Condition A (65oC to 25oC w/NaCl – 2 cycles)	
Moisture Resistance	MIL-STD-202 Method 106E (65 oC/98% RH condensing/240 hrs)	
Temperature Shock	MIL-STD-202 Method 107D / Condition B-1 (25 cycles -65oC to +125oC)	
Life (Elevated Temperature)	MIL-STD-202 Method 108A / Condition A (96 hours at 100oC)	
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 antitarnish properties of Nickel.

Part Number



Connector Ordering Guide

Connector Orientation	Ordering Code
TNC Female – TNC Male	TFTM
TNC Female – TNC Female	TFTF
TNC RP Jack – TNC RP Jack	TJTJ
TNC RP Jack – TNC RP Plug	TJTP