

TNC to TNC Quarter Wave Lightning Protector 3.8 to 5.0 GHz



Features:

- ✦ Low VSWR
- ✦ Low Insertion Loss
- ✦ 45 kA Surge Protection
- ✦ Bi-directional Protection
- ✦ Rugged and Weatherproof

RF Specifications

- ✦ Nominal Impedance 50Ω

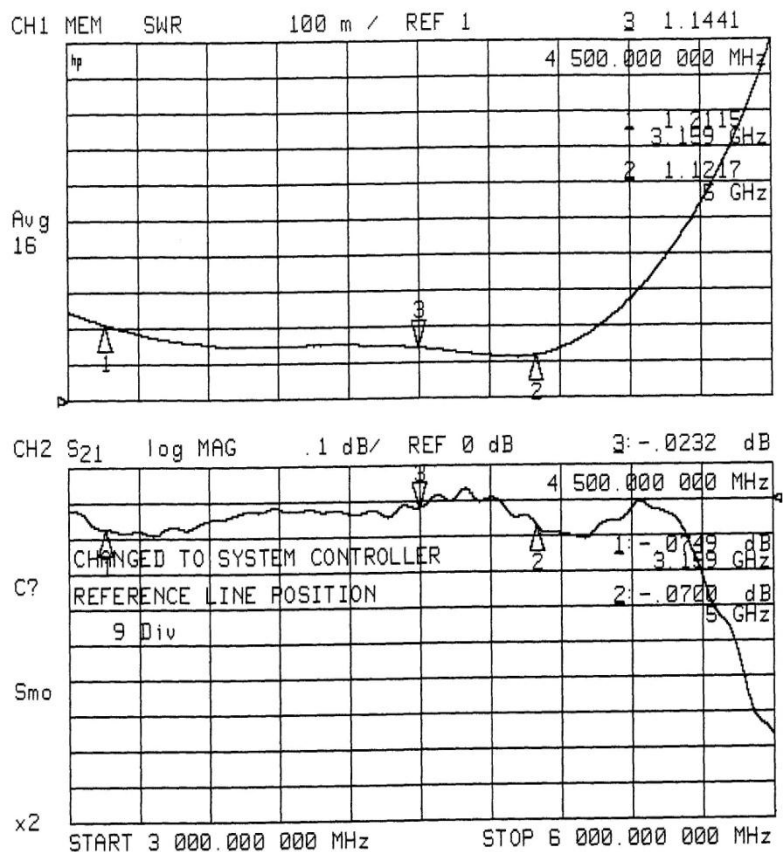
| Frequency (GHz) | VSWR typ / max | Loss (dB) typ / max |
|-----------------|----------------|---------------------|
| 3.8 – 5.0 | 1.05 / 1.15 | 0.05 / 0.10 |

- ✦ Return Loss (typ dB/min): 32.5/23.1
- ✦ RF Power: 0.08 kW_{avg} / 1 kW_{pk}

Transient Specifications

(1.2X50μs Voltage / 8X20μs Current waveform)

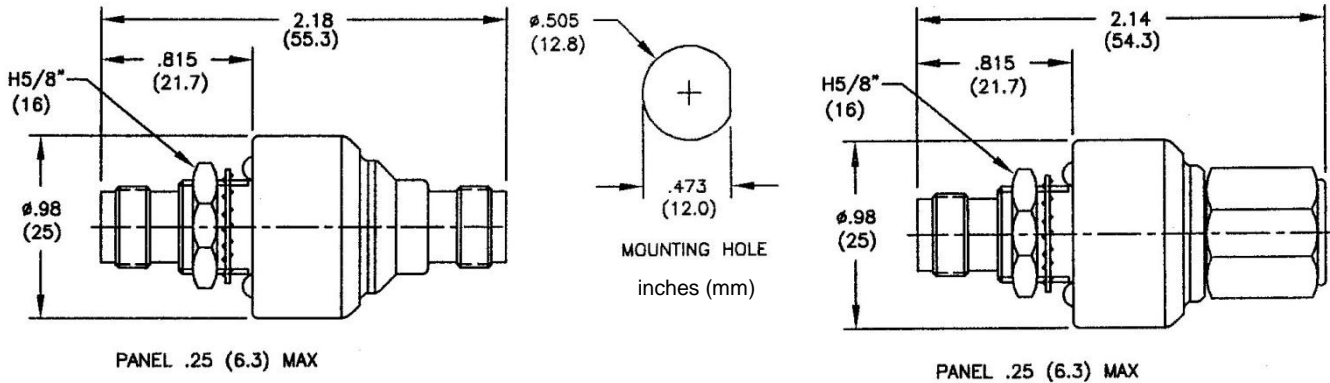
- ✦ Maximum Transient: 45 kA_{pk} (8x20μs)
- ✦ Multiple Strike: 30 kA_{pk} (10 times)
- ✦ Let Through (Vpk/μJ): 7V / 4μJ
Input: 6kV/3kA Output: into 50Ω



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 | -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.

Part Number

