

High Performance N to N Quarter Wave Stub Lightning Protector 5.2GHz to 18GHz



Features:

- ✦ Ideal for C, X, and Ku Band Applications
- ✦ Low VSWR and Insertion Loss
- ✦ 60kA Surge Protection
- ✦ O-Ring Bulkhead Mount
- ✦ Bi-directional Protection
- ✦ Rugged and Weatherproof

RF Specifications

- ✦ Nominal Impedance 50Ω

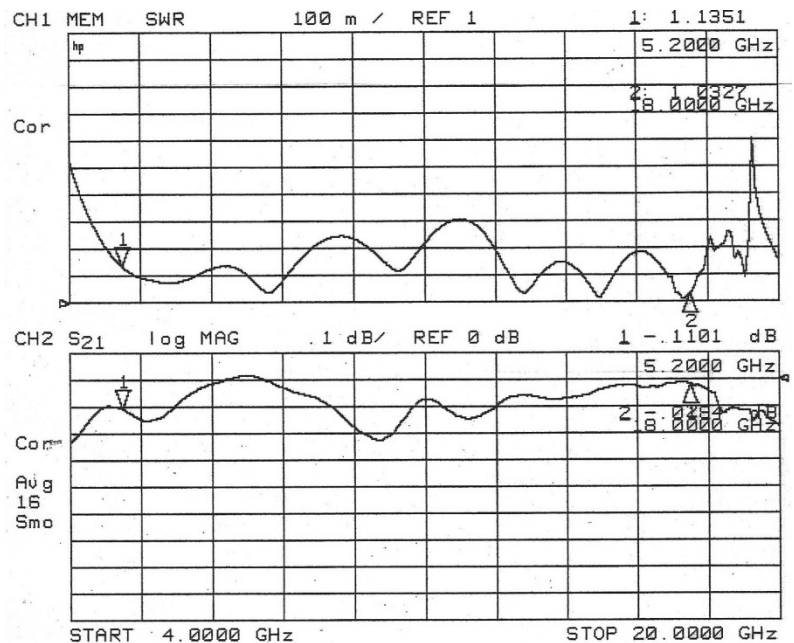
| Frequency (GHz) | VSWR typ / max | Loss (dB) typ / max |
|-----------------|----------------|---------------------|
| 5.2 – 18.0 | 1.15 / 1.30 | 0.10 / 0.25 |

- ✦ Return Loss (dB typ/min): 23.1/17.7

| Frequency (GHz) | 5.2 | 12 | 18 |
|-----------------|-----|-----|-----|
| RF Power (Wcw) | 375 | 200 | 150 |

Transient Specifications

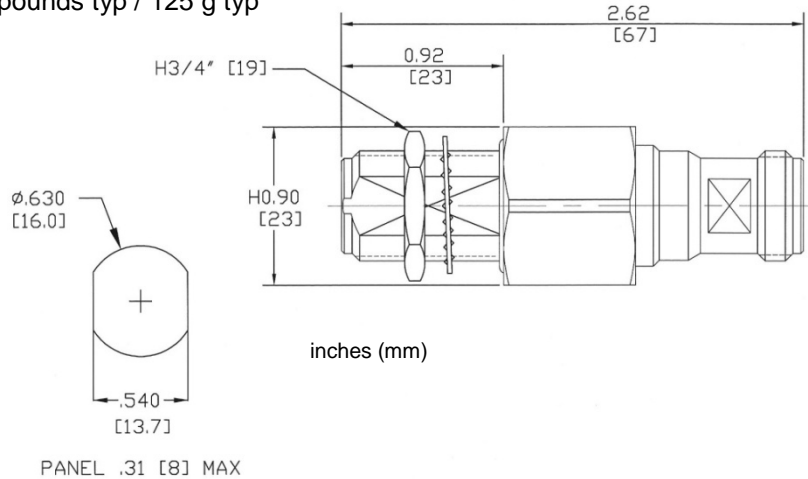
- ✦ Maximum Transient: 60 kA peak
(1.2X50μs Voltage / 8X20μs Current waveform)
- ✦ Let Through (Vpeak/μJ): 1.2Vpeak/250nJ
Input: 6kV/3kA Output: into 50Ω
- ✦ MIL-STD-461 CS115 Let-through: 13.2Vpeak
- ✦ MIL-STD-461 CS116 Let-through: 13.4Vpeak



Typical VSWR and Insertion Loss

Mechanical Specifications

- ✦ Mounting/Grounding: ϕ .625 (15.9) bulkhead mount with environmental gasket. Grounding can also be via a bracket (PN: 750-0088-01) or wire lug to the bulkhead connector.
- ✦ Weight: 0.27 pounds typ / 125 g typ



Material and Finish

| Component | Material | Finish |
|----------------|-----------|--------|
| Outer Parts | Brass | Nickel |
| Center Contact | BeCu | Gold |
| Insulator | PTFE | - |
| Gasket | SI Rubber | - |

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") |

Part Number

