

N to N Quarter Wave Lightning Protector 0.82GHz to 2.2GHz



Features:

- Low VSWR
- Low Insertion Loss
- + 60kA Surge Protection
- + Bi-directional Protection
- + Rugged and Weatherproof

RF Specifications

Nominal Impedance 50Ω

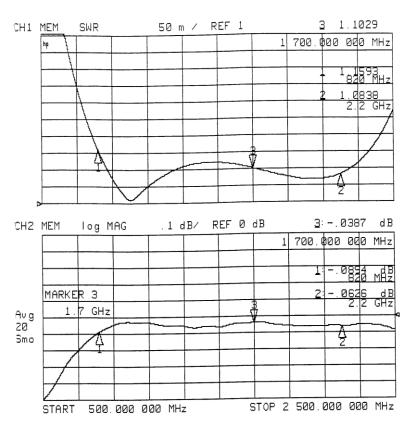
Frequency	VSWR	Loss (dB)
(GHz)	typ / max	typ / max
0.82 – 2.20	1.05 / 1.15	0.05 / 0.10

- + Return Loss (dB typ/min): 32.3/23.1
- RF Power: 1.2kW_{avg}/4kW_{pk}
- + PIM 3: -160dBc typ(2X43dBm)

Transient Specifications

(1.2X50µs Voltage / 8X20µs Current waveform)

- Maximum Transient: 60kA_{pk}
- Let Through (V_{peak}/μJ): 12V/15μJ
 Input: 6kV/3kA Output: into 50Ω



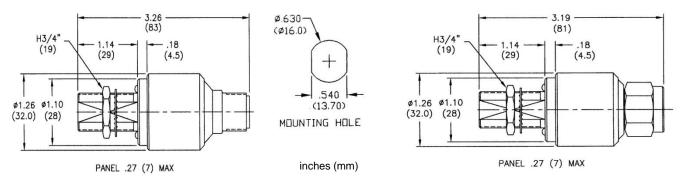
Typical VSWR and Insertion Loss



Mechanical Specifications

- Mounting/Grounding:

 \overline{0.625 (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: 0.4 pounds typ / 180 g typ



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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.

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/NaCI – 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

