

## N to N Quarter Wave Lightning Protector 300MHz to 360MHz



### Features:

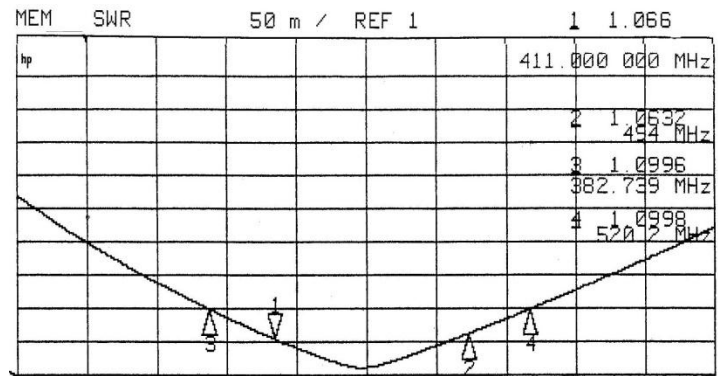
- ✦ Low VSWR
- ✦ Low Insertion Loss
- ✦ 30kA Surge Protection
- ✦ Bi-directional Protection
- ✦ Rugged and Weatherproof

### RF Specifications

- ✦ Nominal Impedance 50Ω

Frequency (MHz)	VSWR typ / max	Loss (dB) typ / max
300 - 360	1.05 / 1.15	0.05 / 0.10

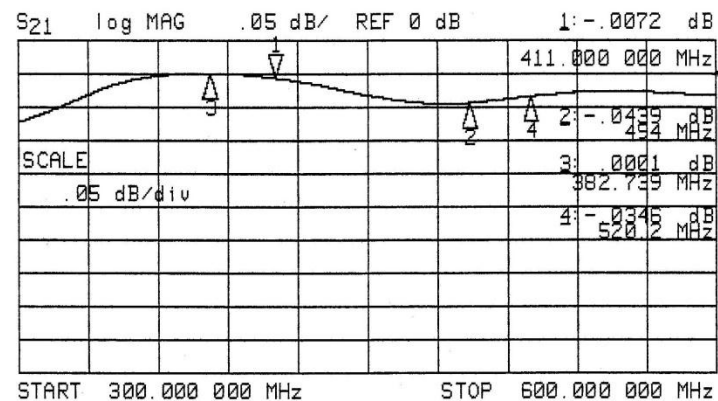
- ✦ Return Loss (dB typ/min): 32.5/23.1
- ✦ RF Power: 0.8kW<sub>avg</sub>/4kW<sub>pk</sub>
- ✦ PIM 3: -160 dBc typ(2X43dBm)



### Transient Specifications

(1.2X50μs Voltage / 8X20μs Current waveform)

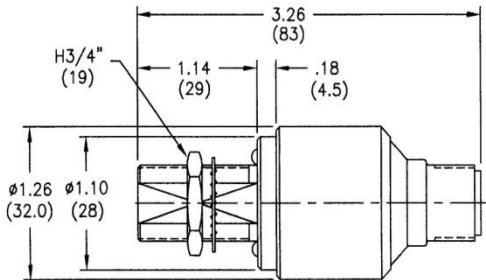
- ✦ Transient: 30kA 1x / 25kA 10x
- ✦ Let Through (V<sub>peak</sub>/μJ): 60V/280μJ  
Input: 6kV/3kA Output: into 50Ω



Typical VSWR and Insertion Loss

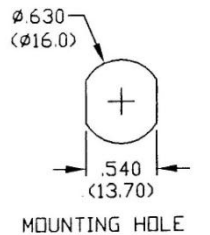
### Mechanical Specifications

- ✦ Mounting/Grounding:  $\phi$ .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



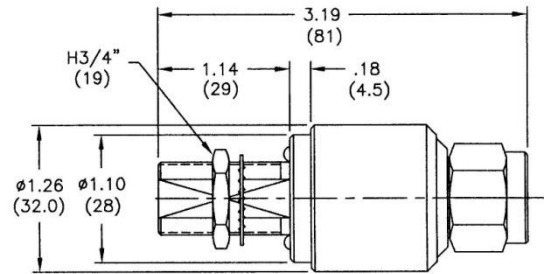
PANEL .27 (7) MAX

QSS NFNF AA 00



MOUNTING HOLE

inches (mm)



PANEL .27 (7) MAX

QSS NFNM AA 00

### 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.

### 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

