

Very High Capacity Surge Protection 7/16DIN to N Connectors / Dual Band 30MHz – 700MHz



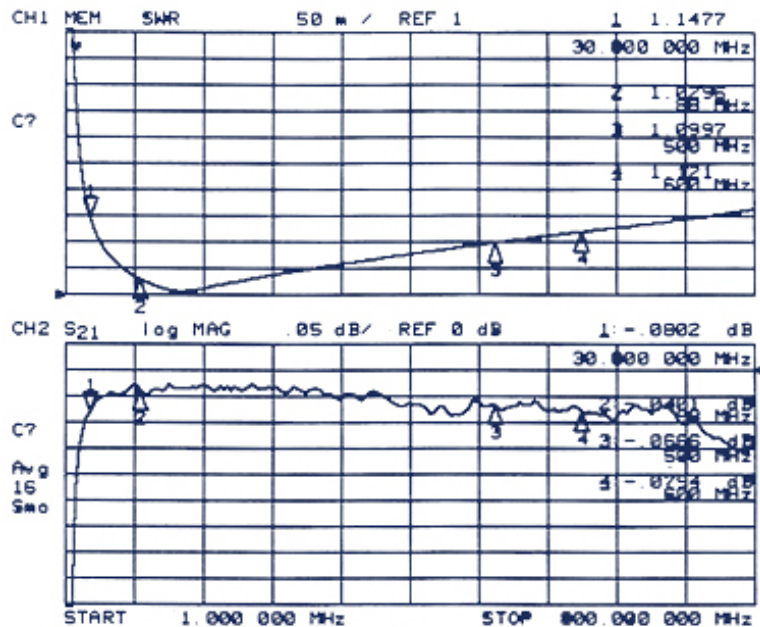
- ✦ Direct Strike Protection
- ✦ Long Life / Maintenance Free
- ✦ Exceptional RF Performance
- ✦ >200kA Surge Protection
- ✦ Rugged and Waterproof

RF Specifications

- ✦ Nominal Impedance: 50Ω

| Frequency (MHz) | VSWR (maximum) | Insertion Loss (maximum) |
|-----------------|----------------|--------------------------|
| 50 - 450 | 1.10 | 0.05 dB |
| 450 - 700 | 1.15 | 0.10 dB |

- ✦ RF Power: See Protection Voltage table



Transient Specifications

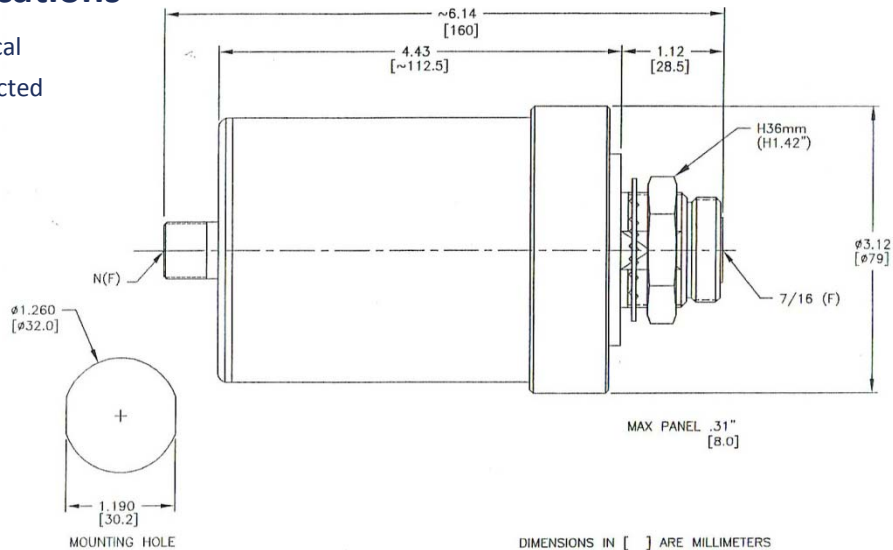
(1.2X50µs Voltage / 8X20µs Current waveform)

- ✦ Gas Discharge Tube 90V to 600V
- ✦ Maximum Transient: 200kA
- ✦ Multiple Strike: 80kA 10x / 30kA 200x
- ✦ Exposed input on 7/16DIN Connection
- ✦ N Connection Protected

Typical VSWR and Insertion Loss

Mechanical Specifications

- ✦ Weight: 2.5lbs. / 1.1kg typical
- ✦ 7/16DIN Exposed – N Protected



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 / Mod Cond B-1 (25 cycles -55°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") |

RF Power (maximum power for VSWR = 1.2)

| Voltage | Code | W_{CW} | W_{peak} |
|---------|------|----------|------------|
| 90 | 09 | 30 | 60 |
| 230 | 23 | 180 | 380 |
| 350 | 35 | 400 | 800 |
| 600 | 60 | 600 | 2500 |

Let-through (input: 6kV 1.2x50µs / 3kA 8x20µs)

| Voltage | Voltage V_{peak} | Energy µJ |
|---------|--------------------|-----------|
| 90 | 250 | 100 |
| 230 | 275 | 125 |
| 350 | 300 | 150 |
| 600 | 400 | 260 |

Material and Finish

| Component | Material | Finish |
|---------------------------|---------------|---------------|
| Connectors | Brass | Nickel |
| Center Contact (7-16 / N) | Copper / BeCu | Silver / Gold |
| Housing | 6061-T1 Al | Nickel |
| Insulator | PTFE | |
| Gasket | Si Rubber | |