

### 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

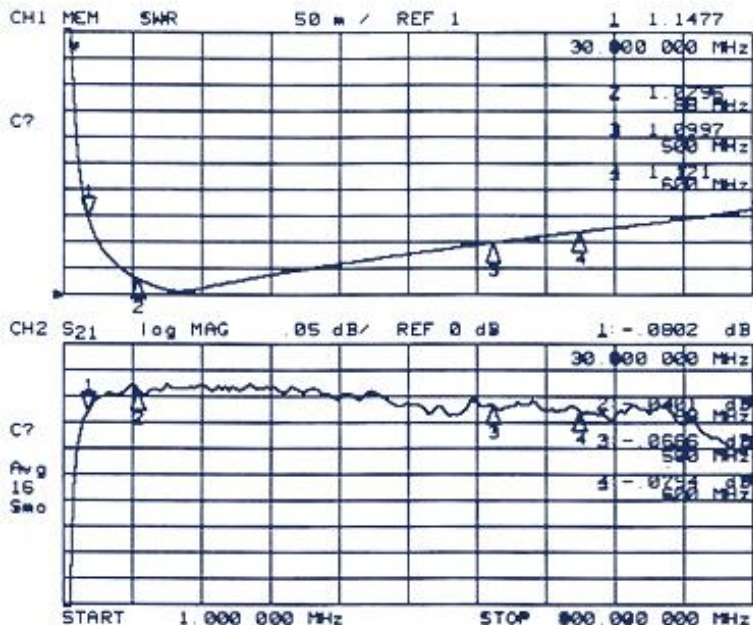
Frequency (MHz)	VSWR (maximum)	Insertion Loss (maximum)
50 - 450	1.10	0.05 dB
450 - 700	1.15	0.10 dB

- ✦ RF Power: See Protection Voltage table

### Transient Specifications

(1.2X50 $\mu$ s Voltage / 8X20 $\mu$ s Current waveform)

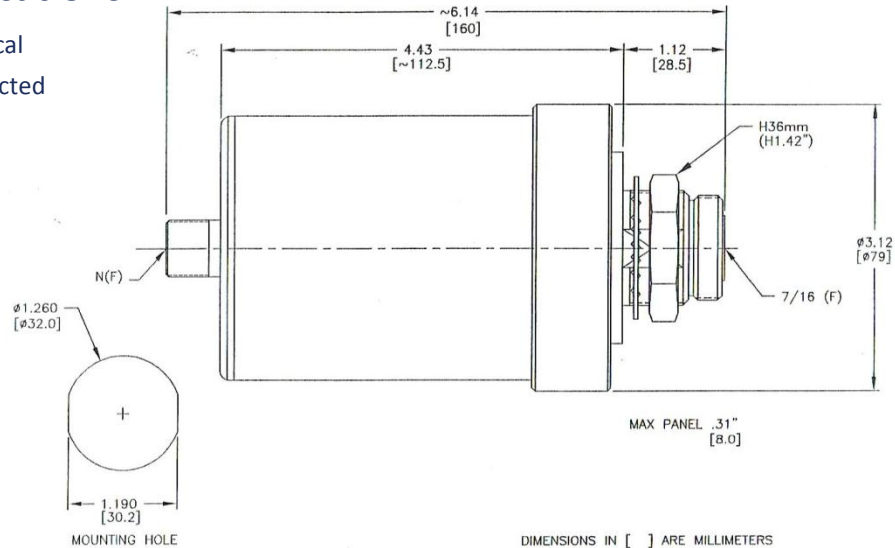
- ✦ Gas Discharge Tube 90V to 600V
- ✦ Maximum Transient: 200kA
- ✦ Multiple Strike: 80kA 10x / 30kA 200x
- ✦ Exposed input on 7/16DIN Connection
- ✦ N Connection Protected



Typical VSWR and Insertion Loss

### Mechanical Specifications

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



### Environmental Specifications

<b>Temperature Range</b>	-40°C to +90°C
<b>Salt Fog</b>	MIL-STD-202 Method 101D / Condition B (35°C/96 hrs)
<b>Immersion</b>	MIL-STD-202 Method 104A / Condition A (65°C to 25°C w/NaCl – 2 cycles)
<b>Moisture Resistance</b>	MIL-STD-202 Method 106E (65°C/98% RH condensing/240 hrs)
<b>Temperature Shock</b>	MIL-STD-202 Method 107D / Mod Cond B-1 (25 cycles -55°C to +125°C)
<b>Life (Elevated Temperature)</b>	MIL-STD-202 Method 108A / Condition A (96 hours at 100°C)
<b>Dust and Waterproof Rating</b>	IEC529 IP68 (dust-tight and water proof 24 hrs / 1 m)
<b>Vibration</b>	MIL-STD-202 Method 204D / Condition D (10Hz-2kHz 0.06"DA/20g)
<b>Mechanical Shock</b>	MIL-STD-202 Method 213 / Condition A (50g/11ms ~24")

### RF Power (maximum power for VSWR = 1.2)

Voltage	Code	W <sub>cw</sub>	W <sub>peak</sub>
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 <sub>peak</sub>	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	