

Gas Discharge Tube Lightning Arrestor N Connectors and a Replaceable Protective Element



PTRONMONFxxS (N-Male to N-Female)

Features:

- + Frequency to 3.2 GHz Excellent RF Performance
- Multiple Strike Capability
- **→** 50 kA Surge Protection
- → Bi-directional Protection
- → Rugged and Waterproof
- High RF Power and Low PIM

RF Specifications

Nominal Impedance – 50 Ω

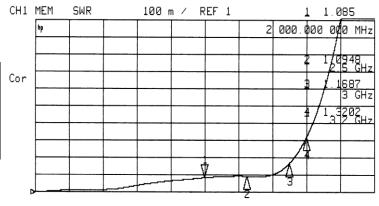
Frequency (GHz)	VSWR	Insertion Loss (dB)
dc – 2.5	1.15 Max	0.10 Max
2.5 – 3.0	1.20 Max	0.15 Max
3.0 – 3.2	1.35 Typ	0.25 Typ

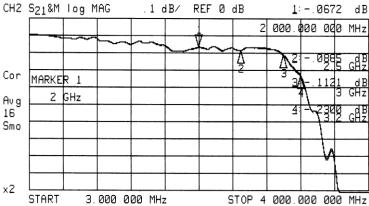
- → Through Current: 65V/10A Max
- → RF Power: See Protection Voltage table
- + PIM3: -116 dBc (2X43 dBm 1.9 GHz tones)



(1.2X50µs Voltage / 8X20µs Current waveform)

- → Maximum Transient: 50 kA
- → Multiple Strike: 20 kA 10 times
- → Let-through: See Protection Voltage table
- Replaceable Gas Discharge Tube 90V to 1000V



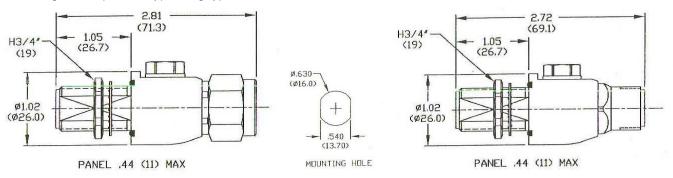


Typical VSWR and Insertion Loss



Mechanical Specifications

→ Weight 0.28 pounds typ/125 g typ



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		
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")		

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.

- Use the voltage code in the part number
 For multiple carriers, sum of peak voltages should not exceed 60% of the protection voltage
- ³ Input is 6kV @ 1.2x50μs/ 3kA @ 8x20μs.

Protection Voltage

Protection Voltage	Voltage Code ¹	RF Power (W) ²	Let-through (V _{pk} / mJ) ³
90	09	37	600 / 0.3
150	15	95	600 / 0.3
230	23	240	650 / 0.5
350	35	550	800 / 0.7
470	47	1000	1200 / 2.2
600	60	1600	1500 / 4.4
800	80	2900	1900 / 9.0
1000	99	4500	2200 / 14

Part Number

