

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



PTRONFONM23S (N-Female to N-Male)

Features:

- ✦ Frequency to 2.5 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

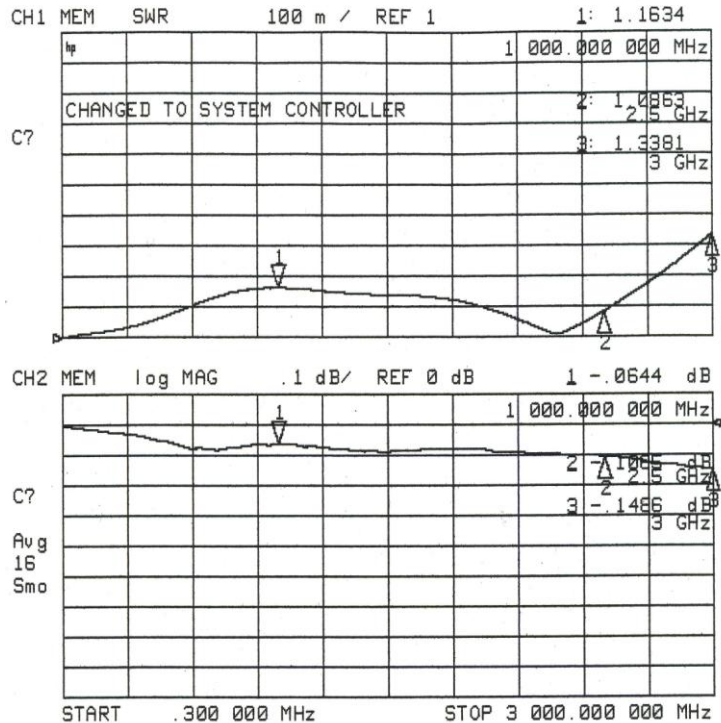
Frequency (GHz)	VSWR	Insertion Loss (dB)
dc – 2.5	1.30 Max	0.15 Max

- ✦ Through Current: 65V/10A Max
- ✦ RF Power: 230W
- ✦ PIM3: -116 dBc
(2X43 dBm 1.9 GHz tones)

Transient Specifications

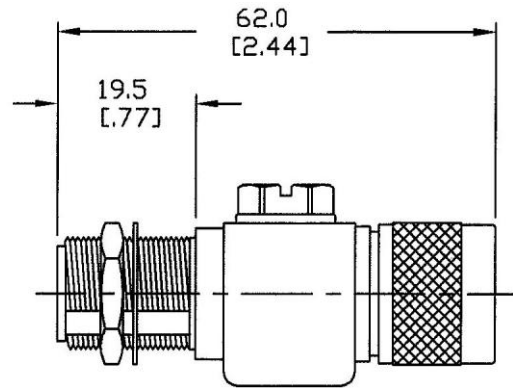
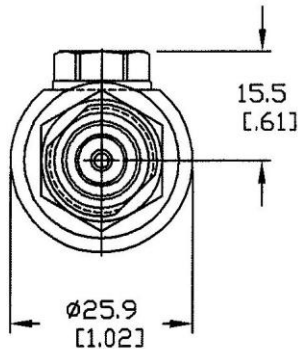
(1.2X50μs Voltage / 8X20μs Current waveform)

- ✦ Maximum Transient: 50 kA
- ✦ Multiple Strike: 20 kA 10 times
- ✦ Let-through: 650Vpk / 0.5mJ
- ✦ Replaceable Gas Discharge Tube 230V



Typical VSWR and Insertion Loss

Mechanical Specifications



PANEL 3.3 [0.13] MAX

PTR ONFONM 23S
FEMALE TO MALE

DIMENSIONS IN [] ARE INCHES

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 IP67 (dust-tight and water proof 1 hr / 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	Nickel
Center Contact	BeCu	Gold
Insulator	PTFE	-
Gasket	Si Rubber	-

Protection Voltage

Protection Voltage	Voltage Code ¹	RF Power (W) ²	Let-through (V _{pk} / mJ) ³
230	23	240	650 / 0.5

- ¹ Use the voltage code in the part number
- ² For multiple carriers, sum of peak voltages should not exceed 60% of the protection voltage
- ³ Input is 6kV @ 1.2x50µs/ 3kA @ 8x20µs.