

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

Features:

Frequency to 2.5 GHz

Excellent RF Performance

Multiple Strike Capability

Bi-directional Protection

Rugged and Waterproof

High RF Power and Low PIM

50 kA Surge Protection



PTRONFONM23S (N-Female to N-Male)

RF Specifications

Nominal Impedance – 50 Ω

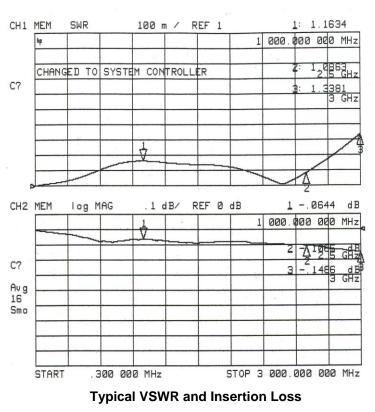
Frequency (GHz)	VSWR	Insertion Loss (dB)	
dc – 2.0	1.30 Max	0.15 Max	
2.0 – 2.5	1.50 Max	0.45 Max	

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

Transient Specifications

(1.2X50µs Voltage / 8X20µs Current waveform)

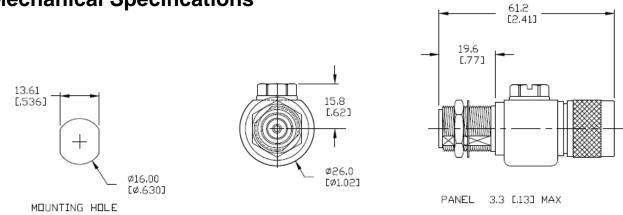
- Maximum Transient: 50 kA
- Multiple Strike: 20 kA 10 times
- + Let-through: See Protection Voltage table
- Replaceable Gas Discharge Tube 90V to 1000V



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Mechanical Specifications



Typical Weight - .25 lbs

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/NaCI – 2	
Moisture Resistance	tance 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)	d Temperature) MIL-STD-202 Method 108A / Condition A (96 hours at 100°C)	
Dust and Waterproof Rating	erproof 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	-	

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 @ 1.2x50 $\mu s/$ 3kA @ 8x20 $\mu s.$

Protection Voltage

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