

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



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

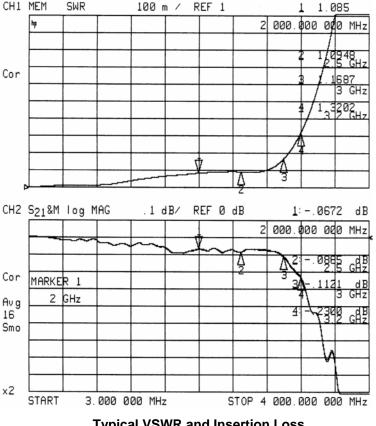
Frequency (GHz)	VSWR	Insertion Loss (dB)
dc – 2.5	1.15 Max	0.10 Max
2.5 - 3.0	1.20 Max	0.15 Max
3. 0 – 3.2	1.35 Тур	0.25 Тур

- 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



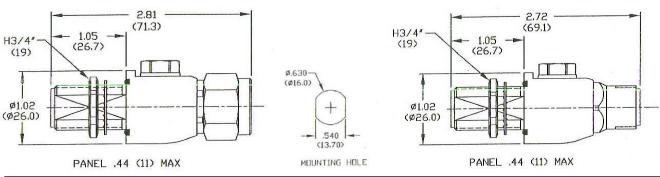
Typical VSWR and Insertion Loss

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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.

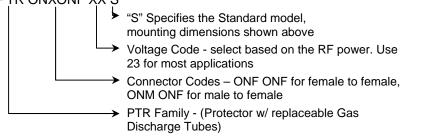
¹ Use the voltage code in the part number

² For multiple carriers, sum of peak voltages should not exceed 60% of the protection voltage

³ Input is 6kV @ 1.2x50µs/ 3kA @ 8x20µs.

Part Number

PTR ONXONF XX S



Protection Voltage

Protectio n 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

Shown with optional bead chain kit

(P/N 780-0333)



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This specification is for reference only, and is subject to change without notice