

PROFEN

WAVEGUIDE ARC DETECTOR



Profen Waveguide Arc Detector offers top-notch protection for your valuable RF power sources and high-power waveguide devices. Designed with state-of-the-art technology, it ensures superior performance and robust features, providing safety and durability for your critical equipment.

The arc detector's wide detection range from 250 nm to 1100 nm ensures accurate arc detection even under various lighting conditions. It has an ultra-fast response time of fewer than 10 μ s, which means any potential risks are immediately detected to prevent damage and ensure uninterrupted operation.

Precisely tested to meet MIL-STD-810G standards proves its reliability in the most challenging environments, and it can withstand extreme temperatures, shocks, and vibrations, providing robust protection for your valuable equipment.

Key Features

- Wide Detection Range (250 nm - 1100 nm)
- Fast Response Time Against Arc Formation (<10 μ s)
- Ability to Operate in Harsh Environmental Conditions (MIL-STD-810G)

Profen Waveguide Arc Detector

RF and Electrical Specifications

Waveguide Interface	WR90
Operating Frequency Range	8,2 – 12,5 GHz
Voltage Standing Wave Ratio	<1,1:1 (Typical)
Insertion Loss	<0,05 dB
Optical Responsivity Range	250 nm (Medium Ultraviolet) – 1100 nm (Near Infrared)
Electromagnetic Isolation	> 65 dB
Directional Optical Responsivity	Equal for Two Waveguide Interfaces
Flange 1 Interface	Square Cover, Threaded Hole, M4 Type
Flange 2 Interface	Square Cover, Threaded Hole, M4 Type
External Electrical Connection Interface	Micro D-Shape Connector, 9-pin (Male)
DC Supply Voltage	+12 V (Min +5,5 V / Max +20 V)
Supply Current	< 33 mA
Output Voltage Type	Open Drain
Response Time	< 10 μ s (λ =625 nm, Flange Port, \approx 5500 lx)
Internal Pressure Endurance	30 PSI
Operating Temperature Range	- 40°C, + 85°C
Weight	262 g

Environmental Tests (MIL-STD-810)

High-Temperature Endurance

Low-Temperature Endurance

Shock Endurance

Vibration Endurance

Humidity Endurance

Salt Fog Endurance

Sealing at IP66 Level

How to Buy?



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