

QS5-IF

P/N 201682

Hybrid pyroelectric sensor with metallic coating. Fast response.



KEY FEATURES

BROAD SPECTRAL RESPONSE

From 0.1 to 1000 μm

4 FAMILIES OF PRODUCTS TO CHOOSE FROM:

- QS-L: discrete pyro detectors, low noise level
- QS-H: discrete pyro detectors, high average power
- QS-IF: hybrid pyro detectors, current mode, fast response
- QS-IL: hybrid pyro detectors, current mode, low noise level

EASY TO INTEGRATE FORMAT

TO5 and TO8 packages make the QS-H detectors small and easy to integrate in an existing system.

LARGE AREA SENSORS

5 mm and 9 mm diameter pyroelectric sensors make optical alignment easier.

SEVERAL IR WINDOWS IN OPTION

- Quartz: 0.2 – 3.5 μm
- Barium fluoride: 0.2 – 17.5 μm
- Sapphire: 0.1 – 7.0 μm
- Silicon: 1.2 – 9.0 μm and 22 – 100 μm
- AR germanium: 1.8 – 23 μm (10.6 μm peak)

MEASUREMENT CAPABILITIES

Maximum average power	50 mW
Noise equivalent power ¹	160 nW
Spectral range	0.1 - 1000 μm
Current responsivity	0.25 $\mu\text{A/W}$
Thermal frequency	0.5 Hz
Voltage responsivity ²	25 V/W
Feedback resistor	100 M Ω
Supply voltage	± 12 V

1. 630 nm, 5 Hz, 1 Hz bandwidth
2. 630 nm, 15 Hz

PHYSICAL CHARACTERISTICS

Aperture diameter	5 mm
Absorber	MT
Dimensions	9.1 \varnothing x 6.4D mm
Weight	0.001 kg
Package	TO5