

## QS5-IL

Hybrid pyroelectric sensor with metallic coating. Low noise level.



### KEY FEATURES

#### BROAD SPECTRAL RESPONSE

From 0.1 to 1000  $\mu\text{m}$

#### 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  $\mu\text{m}$
- Barium fluoride: 0.2 – 17.5  $\mu\text{m}$
- Sapphire: 0.1 – 7.0  $\mu\text{m}$
- Silicon: 1.2 – 9.0  $\mu\text{m}$  and 22 – 100  $\mu\text{m}$
- AR germanium: 1.8 – 23  $\mu\text{m}$  (10.6  $\mu\text{m}$  peak)

## SPECIFICATIONS

### MEASUREMENT CAPABILITIES

Maximum average power	50 mW
Noise equivalent power <sup>1</sup>	6 nW
Spectral range	0.1 - 1000 $\mu\text{m}$
Current responsivity	0.25 $\mu\text{A/W}$
Thermal frequency	0.5 Hz
Voltage responsivity <sup>2</sup>	13 kV/W
Feedback resistor	100 G $\Omega$
Supply voltage	$\pm 5$ 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

### ORDERING INFORMATION

QS5-IL	201687
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## INTERESTED IN THIS PRODUCT?

GET A QUOTE

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