

QS5-L

P/N 201664

Discrete pyroelectric sensor with metallic coating. Low noise level.



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
Spectral range	0.1 - 1000 μm
Current responsivity	0.25 $\mu\text{A}/\text{W}$
Thermal frequency	0.5 Hz
Temperature coefficient	0.2 %/ $^{\circ}\text{C}$
PHYSICAL CHARACTERISTICS	
Aperture diameter	5 mm
Absorber	MT
Dimensions	9.1 \varnothing x 6.4D mm
Weight	0.001 kg
Package	TO5