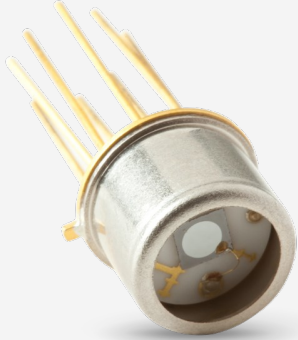


QS2-IL

Hybrid pyroelectric sensor with metallic coating. Low noise level.



PRODUCT FAMILY 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)

SPECIFICATIONS

MEASUREMENT CAPABILITIES

| | |
|-------------------------------------|--------------------------|
| Maximum average power | 50 mW |
| Noise equivalent power ¹ | 2 nW |
| Spectral range | 0.1 - 1000 μm |
| Current responsivity | 0.5 $\mu\text{A/W}$ |
| Thermal frequency | 1.6 Hz |
| Voltage responsivity ² | 25 kV/W |
| Feedback resistor | 100 G Ω |
| Supply voltage | ± 5 V |

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

PHYSICAL CHARACTERISTICS

| | |
|-------------------|-----------------------------|
| Aperture diameter | 2 mm |
| Absorber | MT |
| Dimensions | 9.1 \varnothing x 6.4D mm |
| Weight | 0.001 kg |
| Package | TO5 |

ORDERING INFORMATION

| | |
|--------|--------|
| QS2-IL | 201685 |
|--------|--------|

INTERESTED IN THIS PRODUCT?

GET A QUOTE

Find your local sales representative at gentec-eo.com/contact-us