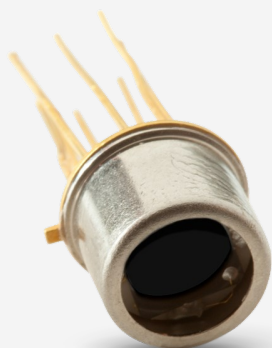


QS5-THZ-BL

Discrete pyroelectric sensor for terahertz power measurement.



KEY FEATURES

RELATIVE MEASUREMENTS FROM 0.1 TO 30 THZ

Broadband, room temperature operation, easier to use and less expensive than a Golay cell

EASY TO INTEGRATE FORMAT

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

SEVERAL SENSOR SIZES AVAILABLE

Choice of 2 x 2 mm and 5 and 9 mm \varnothing

CALIBRATED AT 0.63 MM

QS-THZ detectors are calibrated at a single wavelength (0.63 μm) and include typical wavelength correction data from 0.25 to 440 μm . They are used for relative measurements outside that range.

TEST BOX AVAILABLE

Can be used with our QS-I-TEST test box which provides mounting and power supply

PERMANENT IR WINDOW OPTIONS

Every model can be fitted with a permanent IR window to narrow the wavelength range:

- S5/8: sapphire (0.3 – 4.5 and 100 - 1000 μm)
- Q5/8: quartz (0.25 – 3.0 and 50 - 1000 μm)
- Si5/8: silicon (1.2 – 8.0 and 50 - 1000 μm)



SPECIFICATIONS

MEASUREMENT CAPABILITIES

Maximum average power	60 μW
Noise equivalent power	1 nW
Spectral range ¹	10 - 3000 μm
Frequency ²	0.1 - 30 THZ
Voltage responsivity	70 kV/W

1. Projected spectral range. From 10 to 440 μm , spectrometer measurement. From 440 to 3000 μm , relative measurement only. This spectral range is subject to change.
 2. Projected spectral range. From 10 to 440 μm , spectrometer measurement. From 440 to 3000 μm , relative measurement only. This spectral range is subject to change.

DAMAGE THRESHOLDS

Maximum average power density	0.05 W/cm ²
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PHYSICAL CHARACTERISTICS

Aperture diameter	5 mm
Absorber	BL
Dimensions	9.1 \varnothing x 6.4D mm
Weight	0.045 kg
Package	TO5

ORDERING INFORMATION

QS5-THZ-BL	202289
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INTERESTED IN THIS PRODUCT?

GET A QUOTE

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