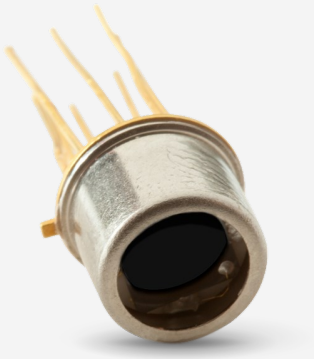
QS5-THZ-BL

Discrete pyroelectric sensor for terahertz power measurement.



PRODUCT FAMILY 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 Ø

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/cm²

PHYSICAL CHARACTERISTICS

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

ORDERING INFORMATION

QS5-THZ-BL	202289

Specifications are subject to change without notice. Refer to the user manual for complete specifications.

INTERESTED IN THIS PRODUCT?

GET A QUOTE

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