

## THZ5B-BL-DA-D0

THz detector for power measurements up to 25  $\mu$ W.



### 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

#### WIDE DYNAMIC RANGE FROM NW TO MW

With state of the art pyroelectric sensors, measure down to 50 nW with 1 nW resolution.

#### SEVERAL SENSOR SIZES AVAILABLE

Choice of 5 mm and 9 mm diameter

#### CALIBRATED AT 0.63 MM

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

#### SDC-500 OPTICAL CHOPPER

All THZ-B detectors require the use of an optical chopper, like our SDC-500, to sync the signal at either 5 Hz (DA models) or 25 Hz (DZ models).

#### COMPATIBLE STAND

[STAND-D-233](#)

## SPECIFICATIONS

### MEASUREMENT CAPABILITIES

Maximum average power	25 $\mu$ W
Noise equivalent power	1 nW
Spectral range <sup>1</sup>	10 - 3000 $\mu$ m
Frequency <sup>2</sup>	0.1 - 30 THz
Typical rise time	0.2 s
Typical power sensitivity	70 kV/W
Chopping frequency <sup>3</sup>	5 Hz
Minimum repetition rate	1000 Hz

1. Projected spectral range. From 10 to 440  $\mu$ m, spectrometer measurement. From 440 to 3000  $\mu$ m, relative measurement only. This spectral range is subject to change.
2. Projected spectral range. From 10 to 440  $\mu$ m, spectrometer measurement. From 440 to 3000  $\mu$ m, relative measurement only. This spectral range is subject to change.
3. SDC-500 digital optical chopper sold separately

### DAMAGE THRESHOLDS

Maximum average power density	0.01 W/cm <sup>2</sup>
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### PHYSICAL CHARACTERISTICS

Aperture diameter	5 mm
Absorber	BL
Dimensions	66.0 $\varnothing$ x 46.5D mm
Weight	0.23 kg

### ORDERING INFORMATION

THZ5B-BL-DA-D0	202292
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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](https://gentec-eo.com/contact-us)