

## THZ9B-BL-DZ-D0

THz detector for power measurements up to 20 mW.



### 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 $\mu\text{m}$

THZ-B detectors are calibrated at a single wavelength (0.63  $\mu\text{m}$ ) and include typical wavelength correction data from 0.25 to 440  $\mu\text{m}$ . 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).

#### User-Friendly Software with Many Features (When used with T-Rad-USB)

- Strip chart, statistics and tuning needle displays
- Controls and power display always visible
- Tuning needle display includes min/max indicators
- Data logging for long term testing

### COMPATIBLE STAND

[STAND-D-233](#)

## SPECIFICATIONS

### MEASUREMENT CAPABILITIES

Maximum average power	20 mW
Noise equivalent power	50 nW
Spectral range <sup>1</sup>	10 - 3000 $\mu\text{m}$
Frequency	0.1 - 30 THz
Typical rise time	0.2 sec
Chopping frequency	25 Hz
Minimum repetition rate	1000 Hz

1. Projected spectral range. From 10 to 440  $\mu\text{m}$ , spectrometer measurement. From 440 to 3000  $\mu\text{m}$ , relative measurement only. This spectral range is subject to change.

### DAMAGE THRESHOLDS

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

Aperture diameter	9 mm
Absorber	BL
Dimensions	66.0 $\varnothing$ x 46.5D mm
Weight	0.23 kg

### ORDERING INFORMATION

THZ9B-BL-DZ-D0	202295
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## INTERESTED IN THIS PRODUCT?

GET A QUOTE

Find your local sales representative at [gentec-eo.com/contact-us](https://gentec-eo.com/contact-us)