

THZ5B-BL-DA-D0

THz detector for power measurements up to 25 μ 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 μ m) and include typical wavelength correction data from 0.25 to 440 μ 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 μ W |
| Noise equivalent power | 1 nW |
| Spectral range ¹ | 10 - 3000 μ m |
| Frequency ² | 0.1 - 30 THz |
| Typical rise time | 0.2 s |
| Typical power sensitivity | 140 kV/W |
| Chopping frequency ³ | 5 Hz |
| Minimum repetition rate | 1000 Hz |

1. Projected spectral range. From 10 to 440 μ m, spectrometer measurement. From 440 to 3000 μ m, relative measurement only. This spectral range is subject to change.
2. Projected spectral range. From 10 to 440 μ m, spectrometer measurement. From 440 to 3000 μ 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 ² |
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PHYSICAL CHARACTERISTICS

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

ORDERING INFORMATION

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|----------------|--------|
| THZ5B-BL-DA-D0 | 202292 |
|----------------|--------|

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