



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	70 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

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