

THZ5I-BL-BNC

Terahertz detector with integrated analog module for power measurement up to 140 μW .



KEY FEATURES

RELATIVE MEASUREMENTS FROM 0.1 TO 30 THZ

Broadband, room temperature operation, easier to use and less expensive than a Golay cell

MEASURE POWER FROM NW TO MW

With state of the art pyroelectric sensors, measure down to 100 nW.

INTEGRATED ANALOG MODULE

Plug the head directly to your oscilloscope or lock-in amplifier.

BATTERY OR AC POWERED

Includes 9V battery and AC power eliminator

CALIBRATED AT 0.63 MM

THZ-I-BNC 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.

COMPATIBLE STAND

[STAND-D-233](#)

SPECIFICATIONS

MEASUREMENT CAPABILITIES

| | |
|-------------------------------------|-------------------------|
| Maximum average power | 62.5 μW |
| Noise equivalent power ¹ | 1 nW |
| Spectral range ² | 10 - 3000 μm |
| Frequency ³ | 0.1 - 30 THz |
| Typical rise time | 0.2 s |
| Typical power sensitivity | 70 kV/W |
| Chopping frequency ⁴ | 5 Hz |
| Analog output | 0 - 10 V, BNC |
| Minimum repetition rate | 1000 Hz |

1. At 632 nm and a chopping frequency of 5 Hz.

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.

3. 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.

4. SDC-500 digital optical chopper sold separately

DAMAGE THRESHOLDS

| | |
|-------------------------------|------------------------|
| Maximum average power density | 0.05 W/cm ² |
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PHYSICAL CHARACTERISTICS

| | |
|-------------------|------------------|
| Aperture diameter | 5 mm |
| Absorber | BL |
| Dimensions | 81.3Ø X 99.3D mm |
| Weight | 0.5 kg |

ORDERING INFORMATION

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|--------------|--------|
| THZ5I-BL-BNC | 202288 |
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INTERESTED IN THIS PRODUCT?

GET A QUOTE

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