

## THZ5I-BL-BNC

Terahertz detector with integrated analog module for power measurement up to 140  $\mu W.$ 



### 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

## 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  $\mu m)$  and include typical wavelength correction data from 0.25 to 440  $\mu m$ . 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 <sup>1</sup>	lnW
Spectral range <sup>2</sup>	10 - 3000 µm
Frequency <sup>3</sup>	0.1 - 30 THz
Typical rise time	0.2 s
Typical power sensitivity	70 kV/W
Chopping frequency <sup>4</sup>	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 <sup>2</sup>
PHYSICAL CHARACTERISTICS	
Aperture diameter	5 mm
Absorber	BL
Dimensions	81.3Ø X 99.3D mm
Weight	0.5 kg
ORDERING INFORMATION	

THZ5I-BL-BNC

# INTERESTED IN THIS PRODUCT?

GET A QUOTE

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