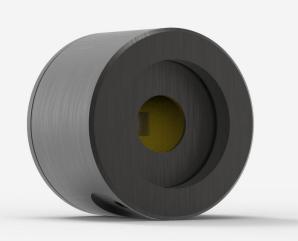


PE5B-GE-D0

Photodiode detector for laser energy measurement up to 2.4 nJ.



PRODUCT FAMILY KEY FEATURES

VERY LOW NOISE LEVEL

Take measurements with a noise level as low as 8 fJ (model PE3B-Si only) with the M-LINK, MAESTRO and S-LINK monitors.

±7.0 % (1560 - 1629 nm) ±10 % (1630 - 1650 nm)

202653

3 SENSORS AVAILABLE

- $\bullet~$ PE-B-SI family: 3 and 10 mm Ø silicon sensors for 0.21 to 1.08 μm
- \bullet PE5B-GE: 5 mm Ø, germanium sensor for 0.8 to 1.65 μm
- $\bullet~$ PE3B-IN: 3 mm Ø, InGaAs sensor for 0.9 to 1.7 μm

SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

STAND-D-233

SPECIFICATIONS

Spectral range ¹	800 - 1650 nm
Typical rise time	25 μs
Maximum repetition frequency	1000 Hz
Maximum measurable energy ²	2.4 nJ
Noise equivalent energy ³	Tq I
Maximum pulse width	10 µs
Energy calibration uncertainty	±5.0 % (800 - 1049 nm) ±3.5 % (1050 - 1559 nm)

- $1. This \ detector \ is \ NIST-traceable \ at \ the \ calibration \ wavelength \ of \ 1310 \ nm. \ Typical \ values \ are \ used \ at \ other \ wavelengths.$
- 2. At 1310 nm. See curves for maximum power at other wavelengths.
- 3. Nominal value. Actual value depends on environmental electromagnetic interference and wavelength.

DAMAGE THRESHOLDS

MEASUREMENT CAPABILITIES

Maximum average power density	320 mW/cm ²
Maximum energy density	5 μJ/cm²
Maximum power	7.1 µW

PHYSICAL CHARACTERISTICS

Aperture diameter	5 mm
Absorber	Ge
Dimensions	38.1Ø x 27.4D mm
Weight	0.09 kg
Distance to sensor face	10.5 mm

ORDERING INFORMATION

PE5B-Ge-INT-D0

PE5B-Ge-D0	202020
PE5B-Ge-INE-D0	

Specifications are subject to change without notice. Refer to the user manual for complete specifications.

INTERESTED IN THIS PRODUCT?



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