QE12LP-S-MB-QED-D0

Pyroelectric detector for laser energy measurement up to 3.9 J.

PRODUCT FAMILY KEY FEATURES

MODULAR CONCEPT

Increase the power capability of your detector: 2 different cooling modules

LOW NOISE LEVEL

0.7 µJ for the MB coating

QED ATTENUATOR AVAILABLE

Measure up to 5X higher energies. Available with optional calibration, all wavelengths between 532 & 1064 nm, or single wavelength. Read more.

HIGH REPETITION RATE OPTIONS

- QE12HR-MB: 1 000 Hz
- QE12HR-MT: 10 000 Hz

TEST TARGET INCLUDED

With the MB models

SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

STAND-D-233

SPECIFICATIONS

MEASUREMENT CAPABILITIES

Spectral range[1]	0.3 - 2.1 µm
Typical rise time	550 µs
Repeatability	<0.5%
Maximum repetition frequency[2]	300 Hz
Maximum measurable energy[3]	3.9 J
Noise equivalent energy[4]	1.4 µJ
Maximum pulse width	400 µs
Energy calibration uncertainty	±3 %

1. For the calibrated spectral range, see the user manual.
2. May be limited by the display or PC interface. Please refer to the corresponding user manual.
3. At 1064 nm, 7 ns, 10 Hz. Increasing pulse width increases maximum measurable energy.
4. Nominal value. Actual value depends on electrical noise in the measurement system.

DAMAGE THRESHOLDS

Maximum average power density[1]	600 W/cm²
Maximum energy density[2]	8 J/cm²
Maximum power	7.5 W

1. May vary with wavelength and average power.
2. At 1064 nm, 7 ns, 10 Hz. May vary with wavelength and pulse width.

PHYSICAL CHARACTERISTICS

Cooling	Convection
Aperture width	9 mm
Aperture height	9 mm
Absorber	QED
Dimensions	39H x 41W x 19D mm
Weight	0.09 kg

ORDERING INFORMATION

QE12LP-S-MB-QED-D0	202178
QE12LP-S-MB-QED-INE-D0	
QE12LP-S-MB-QED-IDR-D0	203256
QE12LP-S-MB-QED-INT-D0	202726

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