



UPF10P-2S-H5-L-D0

Thermal detector for laser power measurement up to 2 W.



PRODUCT FAMILY KEY FEATURES

LOW POWER THERMOPILE

Noise level of a photo detector with the large bandwidth and high power capacity of a thermal device

IR FILTER (UPF10 MODELS)

Removes unwanted IR interference

HIGH PERFORMANCE

- Fast rise time (1.4 sec)
- High damage threshold (36 kW/cm²)

COMPACT DESIGN

Only 13 mm thick (UP10P model)

ENERGY MODE

Measure single shot energy up to 3 J

SMART INTERFACE

Containing all the calibration data

COMPATIBLE STAND

[STAND-S-233](#)



SPECIFICATIONS

MEASUREMENT CAPABILITIES

Maximum average power (continuous)	2 W
Noise equivalent power ¹	30 µW
Spectral range ²	0.28 - 2.1 µm
Typical rise time ³	1.4 s
Power calibration uncertainty ⁴	±2.5 %
Repeatability	±0.5 %

- Nominal value, actual value depends on electrical noise in the measurement system.
- For the calibrated spectral range, see the user manual.
- With anticipation.
- Including linearity with power.

MEASUREMENT CAPABILITIES (ENERGY MODE)

Maximum measurable energy ¹	3 J
Noise equivalent energy ²	5 mJ
Minimum repetition period	2 s
Maximum pulse width	63 ms
Energy calibration uncertainty ³	±5 %

- For 360 µs pulses. Higher pulse energy possible for long pulses (ms), less for short pulses (ns).
- Nominal value, actual value depends on electrical noise in the measurement system.
- When single-shot energy calibration is purchased

DAMAGE THRESHOLDS

Maximum average power density ¹	36 kW/cm ²
Maximum energy density ²	1 J/cm ²

- At 1064 nm, 10 W CW. May vary with wavelength and average power.
- At 1064 nm, 7 ns, 10 Hz. May vary with wavelength and pulse width.

PHYSICAL CHARACTERISTICS

Cooling	Convection
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Aperture diameter	10 mm
Absorber	H5
Dimensions	46H x 46W x 21.4D mm
Weight	0.14 kg

ORDERING INFORMATION

UPFI0P-2S-H5-L-D0

UPFI0P-2S-H5-L-INT-D0

UPFI0P-2S-H5-L-IDR-D0

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