



# ULN-PDB

## ULTRALOW NOISE BALANCED PHOTODETECTOR

The ULN-PDB module is a plug-and-play ultralow noise balanced photodetector in a compact and user-friendly package. It is proposed with InGaAs and Si photodiodes and offers a bandwidth of 100 MHz with a high gain of 39 kV/A in a DC-coupled version.



## SPECIFICATIONS

- Number of outputs: 1
- Trans-impedance gain: 39 kV/A (adjustable on demand)
- Noise equivalent power (NEP): 3 pW/√Hz
- Output impedance: 50 Ω
- Bandwidth: 100 MHz (adjustable on demand)
- Output voltage range: -3 V to +3 V
- Si responsivity: 0.4 A/W at 650 nm
- InGaAs responsivity: 0.9 A/W at 1550 nm
- Available wavelengths: 400 nm – 2200 nm (depending on the photodiode's type)
- Photodiode damage threshold: typ. 5 mW
- Output connector: SMA female
- Input connectors: FC
- Product dimensions: 108 x 79 x 33 mm<sup>3</sup>
- Product weight: approx. 300 g
- Mono-color LED display

## PERFORMANCES

Typical voltage noise power spectral density of the output with 500 μW optical power:

