OEM Balanced Photodetector

OCT and sensor systems require high performance balanced photodetectors to increase system signal to noise ratio. The BPD-002-OEM is a compact, high performance, AC coupled balanced detector specially designed for OEM applications It is fully enclosed in a compact shielding box, with two optical input ports, a balanced RF output port, and two monitor ports. With a bandwidth of up to 400 MHz, a high conversion gain and a saturation power larger than 100 μ W, the BPD-002-OEM is ideal for integration into laboratory or commercial OCT, fiber sensor, and high performance optical measurement systems.

BPD-002-0EM



Specifications¹

InGaAs
1060 nm, 1310nm, or 1550nm ±50nm
0.8 mA/mW at 1550 nm
10 mW
<0.2 dB
>45 dB
≥400 MHz
AC
<1 MHz
$>18 \times 10^3 \text{ mV/mA}$
>14 \times 10 3 mV/mW at 1550nm
>120 µW at 1550 nm
>25 dB
<6 pW $/\sqrt{Hz}$
50 Ω
SMA
>−1V to 1V at 50Ω load >−2V to 2V at high impedance
200 Ω
$0.42 \times 10^3 \text{ mV/mW}$ (high impedance)
DC to 1 kHz
4 V max.
±5V/200 mA
SMF-28e or equiv. (1310 or 1550nm)
0 to 50 °C
-40 to 85 °C
$2.21"(L) \times 1.81"(W) \times 0.65"(H)$

All specifications in this table are tested under 23± 5°C 1.

Includes the coupling loss of fiber to photodiode.

2. 3 If the output voltages for the monitor ports are equal, then the photocurrents are equal.

Applications:

- **Optical Coherence Tomography**
- Fiber Sensing Interrogator
- Instrumentation
- R&D

Unique Features:



Ordering Information:



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Dimensions:



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