

InGaAs Variable Gain Photoreceiver, 800-1700nm



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1
+
C\$6,600⁰⁰

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General

Remote Control:
Yes

Note:
Includes:
LEMO® 3-pin connector
Datasheet

Physical & Mechanical Properties

Weight (g):
320

Dimensions (mm):
Case Size: 170 x60 x45

Optical Properties

800 - 1700 nm **Spectral Range:**

Sensor

InGaAs PIN **Detector Type:**

Electrical

Transimpedance Gain (Ω):
Low Noise: 1×10^3 - 1×10^9 (adjustable in decade steps)
High Speed: 1×10^4 - 1×10^9 (adjustable in decade steps)

Noise Equivalent Power NEP ($W/Hz^{1/2}$):
 5.2×10^{-14} - 1.92×10^{-10}

200 MHz max **Bandwidth (-3 db):**

Hardware & Interface Connectivity

Power Requirement:
 ± 15 V, $+150$ mA- 100 mA, ± 200 mA

Power Supply:
Power Supply Required and Sold Separately.
USA: [#59-180](#)
Europe: [#59-180](#)
Japan: Not Available
Korea: Not Available
China: [#59-180](#)

Environmental & Durability Factors

0 to $+60$ **Operating Temperature ($^{\circ}C$):**

Regulatory Compliance

[Compliant](#) **RoHS 2015:**

[View](#) **Certificate of Conformance:**

Product Details

- Ultra-Wide Adjustable Transimpedance Gain from 10^2 to 10^{11} V/W
- Exceptional Low-Noise, High-Sensitivity Single-Beam Detection
- Optimized for Absolute Optical Power Measurements
- Designed for Direct, Alignment-Free Integration

Variable Gain Photoreceivers feature an ultra-wide adjustable transimpedance gain from 10^2 to 10^{11} V/W, enabling precise measurement of optical signals across a broad power range. Engineered for ultra-low noise performance, these photoreceivers achieve noise equivalent power (NEP) as low as $6fW/\sqrt{Hz}$, ensuring accurate detection of extremely weak optical signals. Designed for single-beam detection, they provide maximum sensitivity and dynamic range, allowing for simple, alignment-free integration into optical systems. Variable Gain Photoreceivers are ideal for applications such as photonics research, optical communication testing, and precision low-light measurements.

Note: Power supply sold separately. Please see specifications for more details.