

## InGaAs Variable Gain Photoreceiver, 800-1700nm



Stock **#90-629** NEW **1 In Stock**

S\$6,160<sup>00</sup>

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### Product Downloads

#### 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 ( $\Omega$ ):**  
Low Noise:  $1 \times 10^3 - 1 \times 10^9$ (adjustable in decade steps)  
High Speed:  $1 \times 10^4 - 1 \times 10^9$ (adjustable in decade steps)

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

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

## Hardware & Interface Connectivity

**Power Requirement:**  
 $\pm 15 V, +150 mA - 100 mA, \pm 200 mA$

**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

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

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

## 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  $6 fW/\sqrt{Hz}$ , 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.