

SI Variable Gain Photoreceiver, 850nm



#90-625 SI Variable Gain Photoreceiver, 850nm

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⊖ 1 ⊕ **\$4,963⁰⁰**

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General

0.7 - 300 **Rise Time (μs):**

Yes **Remote Control:**

Note:
Includes:
LEMO® 3-pin connector
Datasheet

Physical & Mechanical Properties

Weight (g):

320

Case Size: 170 x 60 x 45 **Dimensions (mm):**

Optical Properties

320 - 1060 nm **Spectral Range:**

Sensor

Si-PIN **Detector Type:**

Electrical

8 x 10⁻¹⁵- 3.3 x 10⁻¹¹ **Noise Equivalent Power NEP (W/ Hz^{1/2}):**

500 KHz max **Bandwidth (-3 db):**

Conversion Gain (V/W):
Low Noise: 1 x 10⁴-1 x 10¹⁰(adjustable in decade steps)
High Speed: 1 x 10⁶-1 x 10¹² (adjustable in decade steps)

Hardware & Interface Connectivity

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

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 (°C):**

Regulatory Compliance

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

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

Product Details

- Ultra-Wide Adjustable Transimpedance Gain from 10² to 10¹¹ 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 10² to 10¹¹V/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/√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.