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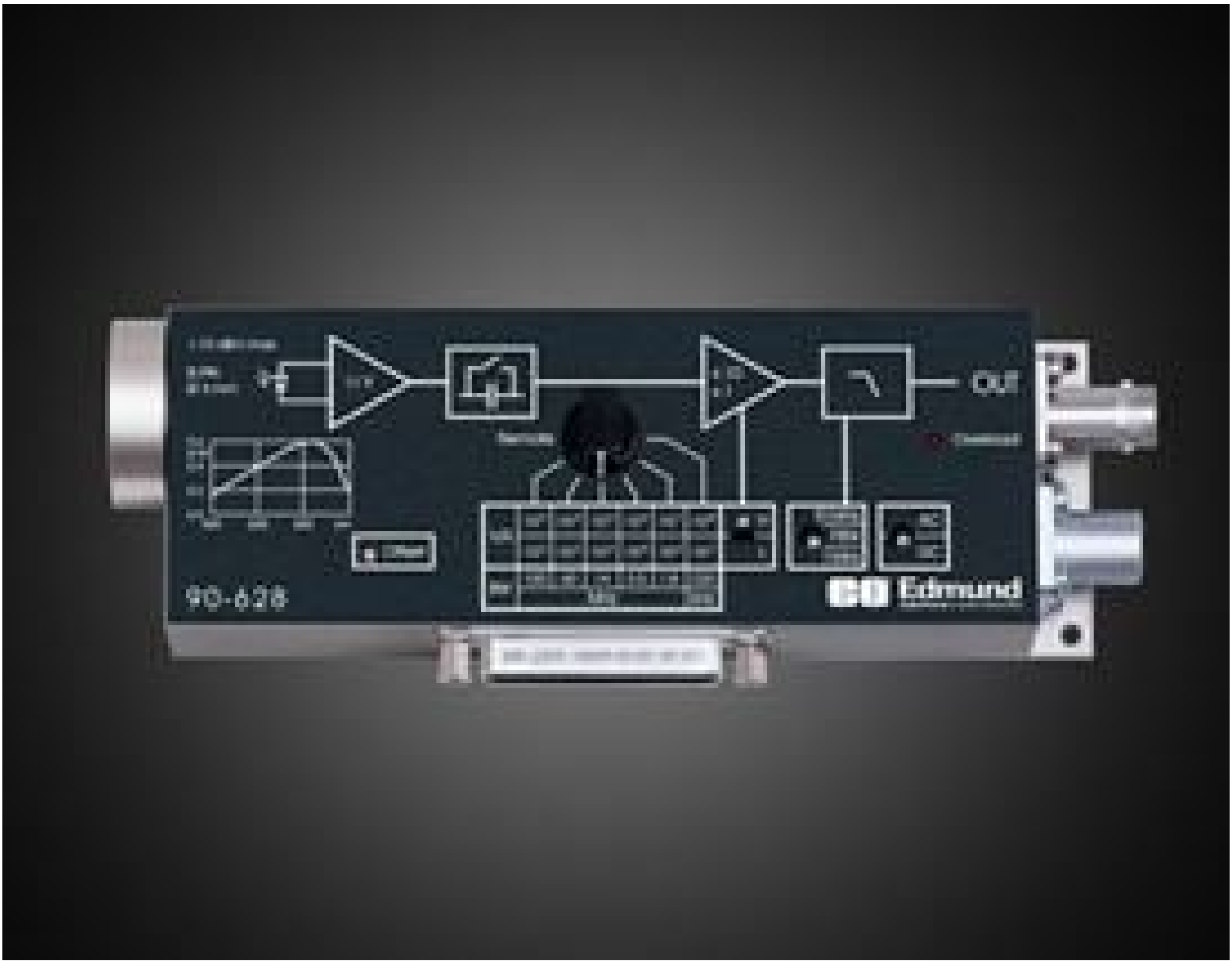
SI Variable Gain Photoreceiver, 320-1000nm



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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 x 60 x 45

Optical Properties

Spectral Range:
320 - 1000 nm

Sensor

Detector Type:
Si-PIN

Electrical

Transimpedance Gain (Ω):
Low Noise: 1 x 10^3 - 1 x 10^8(adjustable in decade steps)
High Speed: 1 x 10^4 - 1 x 10^9(adjustable in decade steps)

Noise Equivalent Power NEP (W/ $Hz^{1/2}$):
8.1 x 10^{-14}- 3.25 x 10^{-10}

Bandwidth (-3 db):
200 MHz max

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

Operating Temperature (°C):
0 to +60

Regulatory Compliance

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 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.

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