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Data Sheet

August 15, 2026

ELECTRO-OPTICS

Electro-Optics ET-3000A Amplified Photodetector

The Electro-Optics ET-3000A is a high-sensitivity amplified photodetector designed for detecting low-level optical signals. It features a wide spectral response, high gain, and low noise, making it ideal for various applications such as optical communication, laser detection, and spectroscopy. The detector is housed in a compact and rugged package for easy integration into existing systems.



MODEL

Electro-Optics ET-3000A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

ET-3000A

LISTING

<https://aumictechlabs.com/products/et-3000a-3/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Electro-Optics ET-3000A Amplified Photodetector is a high-sensitivity device designed for the detection of low-level optical signals. It integrates PIN photodiodes with a transimpedance amplifier to convert optical power into an electrical current. This photodetector is suitable for applications requiring the measurement of optical signals, such as in optical communications, laser detection, and spectroscopy, enabling tasks like measuring laser pulse width when terminated into an oscilloscope or frequency response when terminated into a spectrum analyzer. The device is characterized by its built-in amplifier, compact footprint, and a specified bandwidth, with options for different detector materials to suit various spectral ranges. Technical

Specifications * Model: ET-3000A Manufacturer: Electro-Optics Technology, Inc. (EOT) Detector Material: Silicon or InGaAs options are available, with the ET-3000A specifically noted as having an InGaAs detector. Spectral Response: * Silicon detectors generally cover a broad spectral range. * InGaAs detectors are suited for longer wavelengths, with specific mentions of 1300 nm. Bandwidth: * Up to 10 GHz * 30 kHz – 1.5 GHz * Up to 2 GHz Conversion Gain: * 900 V/W at 1300 nm (for InGaAs) * 450 V/W at 830 nm (for Silicon) Rise Time/Fall Time: * < 400 ps / < 400 ps (for InGaAs) * < 500 ps / < 500 ps (for Silicon) Active Area Diameter: * 400 μ m (for Silicon) * 100 μ m (for InGaAs) Acceptance Angle (1/2 angle): * 10° (for Silicon) * 20° (for InGaAs) Noise Equivalent Power (NEP): * < 60 pW/ $\sqrt$ Hz (for Silicon) * < 30 pW/ $\sqrt$ Hz (for InGaAs) Maximum Linear Rating: 1.3 V peak Power Supply: 24 VDC (Typically a wall plug-in power supply) Output Connector: BNC Mounting: 8-32 or M4 tapped holes Electrical Characteristics * Transimpedance Amplifier: Built-in, providing a fixed gain for amplification of low-level optical signals. Termination: Not internally terminated; optimal termination is 50 Ω . Physical Characteristics * Package: Compact and rugged housing for easy integration. Interfaces * Output: BNC connector for signal output. Applications * Detecting low-level optical signals. Optical communication systems. Laser detection and monitoring. Spectroscopy. Measuring laser pulse width when terminated into an oscilloscope. Measuring laser frequency response when terminated into a spectrum analyzer. Monitoring high repetition rate, externally modulated CW lasers. Viewing optical powers below 1 mW. Why Choose Aumictech for Electro-Optics ET-3000A Amplified Photodetector? At Aumictech, we specialize in supplying high-end optical detection equipment. Whether you need precise low-light signal detection, reliable laser pulse width measurement, or accurate spectral response analysis, our team ensures the Electro-Optics ET-3000A Amplified Photodetector delivers maximum performance for your application.

ET3000A Characteristics / Specifications

PARAMETER	VALUE
Model	ET-3000A
Instrument Type	Amplified InGaAs photodetector
Family	EOT / Coherent amplified photodetectors
Part Number	120-10036-0001
Detector Material	InGaAs
Rise Time	less than 40 ps
Fall Time	less than 400 ps
Conversion Gain	900 V/W at 1300 nm
Supply Voltage	24 VDC
Bandwidth	30 kHz to 1.5 GHz
Active Diameter	100 um
Acceptance Angle	20 degree half angle
Nep	less than 30 pW/sqrt(Hz) at 1300 nm
Linear Output	1.3 V peak maximum
Coupling	AC coupled
Termination	50 ohm unless otherwise stated
Output Connector	BNC
Mounting	8-32 or M4 tapped holes
Amplifier Gain	26 dB power gain across the photodiode bandwidth
Wavelength Class	1300 nm optimized InGaAs
Fiber	multimode fiber available (may limit bandwidth)
Sibling	ET-2030A silicon 30 kHz-1.2 GHz, 450 V/W at 830 nm, 400 um
Manufacturer	Electro-Optics Technology (EOT) / Coherent
Literature	EOT/Coherent amplified photodetector datasheet ET-3000A row and EOT amplified photodetector user guide

PARAMETER	VALUE
Bandwidth Rule	bandwidth approximately $0.35 / \text{rise time}$ for Gaussian pulse input

ET3000A Specifications

PARAMETER	VALUE
Applications	High-speed 1300 nm optical pulse and analog link detection with a 1.5 GHz amplified InGaAs receiver.
Key Features	InGaAs amplified detector, 30 kHz to 1.5 GHz
Technical Specifications	Model: ET-3000A

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Notes

From EOT/Coherent amplified photodetector datasheet ET-3000A (120-10036-0001) and the EOT amplified photodetector user guide. ET-2030A silicon figures are the sibling row only.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.