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Electro-Optics Technology, Inc.

Innovative High Quality Laser Solutions

# AMPLIFIED

## Photodetectors




EOT's Amplified Photodetectors contain PIN photodiodes that utilize the photovoltaic effect to convert optical power into an electrical current and a fixed gain transimpedance amplifier allowing measurement of <1 mW input powers.

When terminated into 50 Ω into an oscilloscope, the pulsewidth of a laser can be measured. When terminated into 50 Ω into a spectrum analyzer, the frequency response of a laser can be measured.

EOT's Amplified Photodetectors come with their own wall plug-in power supply. Plugging a coaxial cable into the photodetector's SMA or BNC output connector and terminating into 50 Ω at the oscilloscope or spectrum analyzer is all that is required for operation.

### FEATURES

- Built-in transimpedance amplifier
- Small footprint
- Bandwidth up to 10 GHz
- External wall plug-in power supply

### OPTIONS

- Detector Material
- Active Area
- Fiber-coupled or free space options available

### APPLICATIONS

- Monitoring high repetition rate, externally modulated CW lasers
- Viewing <1 mW laser powers

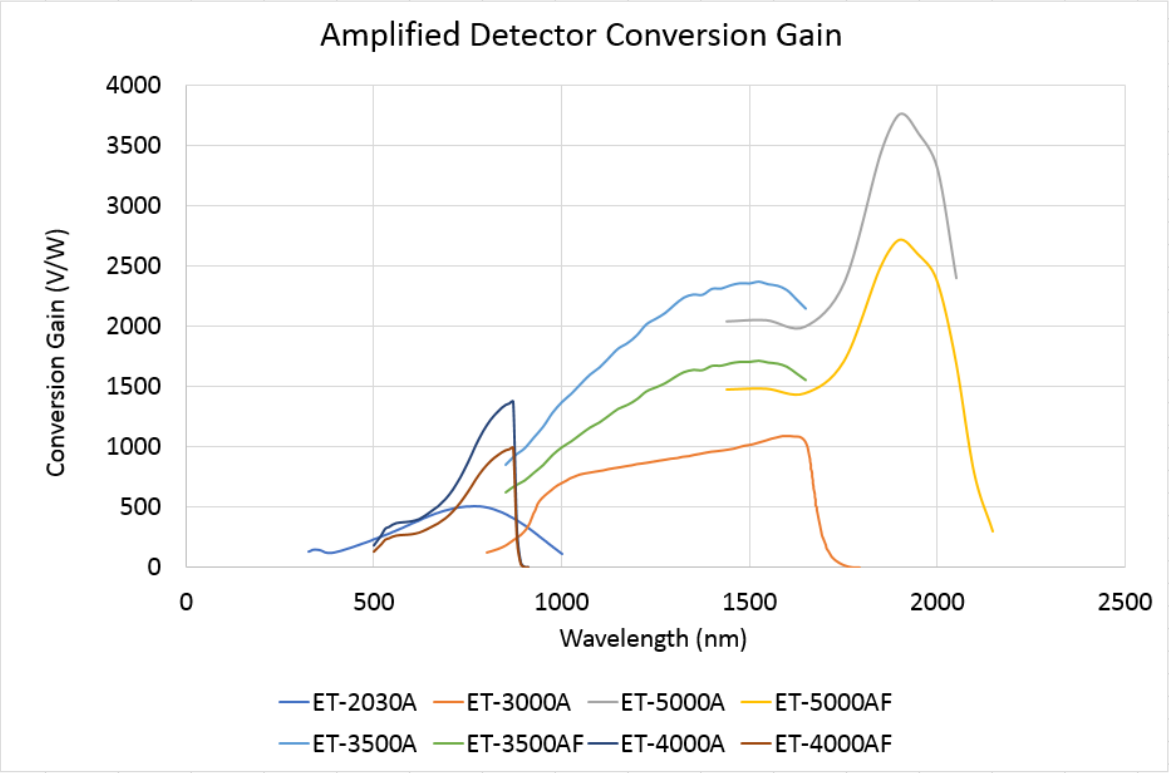
Electro-Optics Technology, Inc.

# Innovative High Quality Laser Solutions

## SPECIFICATIONS

| Part No. (Model) | 120-10013-0001 (ET-2030A)[a] | 120-10036-0001 (ET-3000A)[a] | 120-10060-0001 (ET-3500A)[a] | 120-10064-0001 (ET-3500AF)[a] | 120-10073-0001 (ET-4000A)[a] | 120-10077-0001 (ET-4000AF)[a] | 120-10115-0001 (ET-5000A) | 120-10116-0001 (ET-5000AF) |
|---|---|---|---|---|---|---|---|---|
| **Detector Material** | Silicon | InGaAs | InGaAs | InGaAs | GaAs | GaAs | InGaAs | InGaAs |
| **Rise Time/Fall Time** | <500 ps/<500 ps | <400 ps/<400 ps | 35 ps/35 ps | 35 ps/35 ps | 35 ps/35 ps | 35 ps/35 ps | 35 ps/35 ps | 35 ps/35 ps |
| **Conversion Gain** | 450 V/W at 830 nm | 900 V/W at 1300 nm | 2250 V/W at 1310 nm | 1620 V/W at 1310 nm | 1340 V/W at 850 nm | 970 V/W at 850 nm | 3250 V/W at 2000 nm | 2350 V/W at 2000 nm |
| **Power Supply** | 24 VDC | 24 VDC | 5 VDC | 5 VDC | 5 VDC | 5 VDC | 5 VDC | 5 VDC |
| **Bandwidth** | 30 kHz to 1.2 GHz | 30 kHz to 1.5 GHz | 20 kHz to 10 GHz | 20 kHz to 10 GHz | 20 kHz to 10 GHz | 20 kHz to 10 GHz | 20 kHz to 10 GHz | 20 kHz to 10 GHz |
| **Active Area Diameter** | 400 µm | 100 µm | 32 µm | 32 µm | 60 µm | 60 µm | 40 µm | 40 µm |
| **Acceptance Angle (1/2 angle)** | 10° | 20° | 15° | N/A | 15° | N/A | 20° | N/A |
| **Noise Equivalent Power[b]** | <60 pW/√Hz at 830 nm | <30 pW/√Hz at 1300 nm | 25 pW/√Hz at 1310 nm | 30 pW/√Hz at 1310 nm | 35 pW/√Hz at 850 nm | 50 pW/√Hz at 850 nm | 20 pW/√Hz at 2000nm | 25 pW/√Hz at 2000 nm |
| **DC Monitor Output** | | | 1 mV/µA | 1 mV/µA | 1 mV/µA | 1 mV/µA | 1 mV/µA | 1 mV/µA |
| **Maximum Linear Rating** | 1.3 V peak | 1.3 V peak | 450 mVp-p | 450 mVp-p | 450 mVp-p | 450 mVp-p | 450 mVp-p | 450 mVp-p |
| **Mounting (Tapped Holes)** | 8-32 or M4 | 8-32 or M4 | 8-32 or M4 | 8-32 or M4 | 8-32 or M4 | 8-32 or M4 | 8-32 or M4 | 8-32 or M4 |
| **Output Connector** | BNC | BNC | SMA | SMA | SMA | SMA | SMA | SMA |
| **Fiber Optic Connection[c]** | N/A | N/A | N/A | FC/UPC | N/A | FC/UPC | N/A | FC/UPC |

Product specifications are subject to change. All products are RoHS compliant.
[a] Low frequency cut-off is 30 kHz and not suitable for measuring lasers with a lower rep rate
[b] Noise Equivalent Power (NEP) is determined via short circuit output.
[c] Multi-mode fiber available. May limit bandwidth.
NOTE: All specifications apply for a 50 Ω termination unless otherwise noted.




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