



Electro-Optics Technology, Inc.

Innovative High Quality Laser Solutions

LOW SPEED

Photodetectors



FEATURES

- Small footprint
- Internal voltage bias
- DC to 2 GHz

OPTIONS

- External wall plug-in power supply available
- Fiber-coupled or free space options available
- Detector Material

APPLICATIONS

- Monitoring the output of Q-switched lasers
- Monitoring the output of mode-locked lasers

EOT's Low Speed Photodetectors contain PIN photodiodes that utilize the photovoltaic effect to convert optical power into an electrical current.

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 Low Speed Photodetectors come with their own internal bias supply consisting of long-life lithium cells. Plugging a coaxial cable into the photodetector's BNC output connector and terminating into 50 Ω at the oscilloscope or spectrum analyzer is all that is required for operation.



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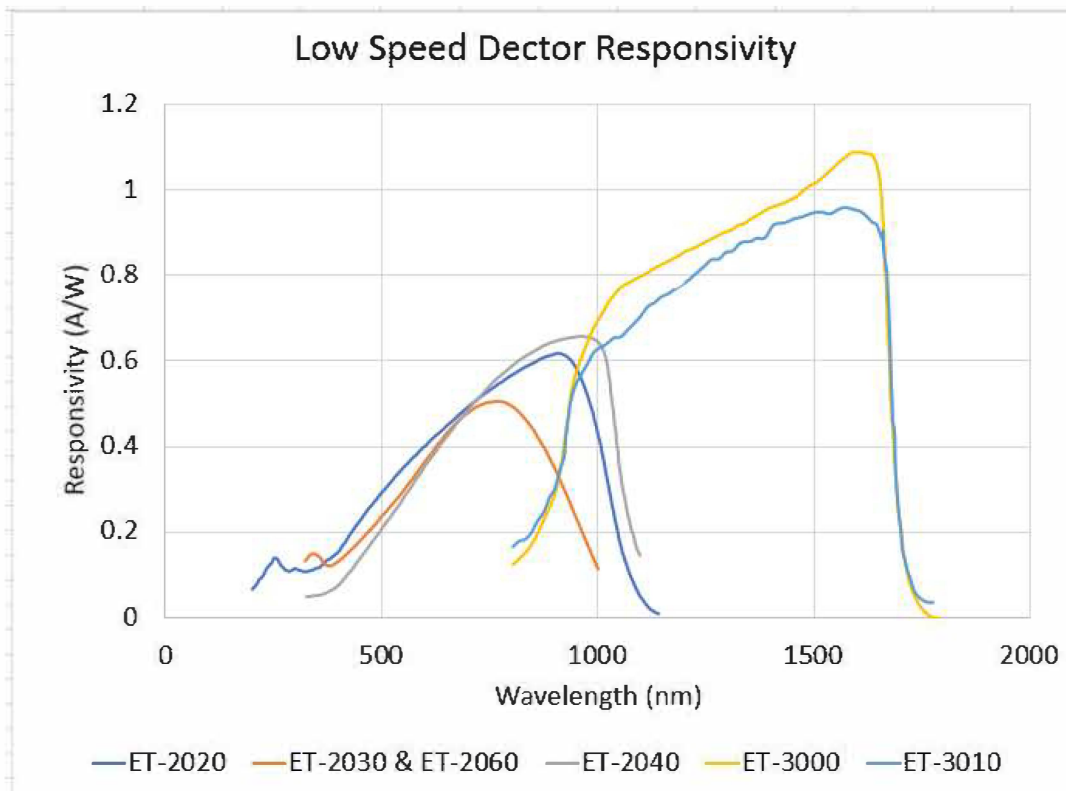
SPECIFICATIONS

Part No. (Model)	120-10011-0001 (ET-2030)	120-10028-0001 (ET-2040)	120-10133-0001 (ET-2060)	120-10134-0001 (ET-2070)	120-10034-0001 (ET-3000)	120-10050-0001 (ET-3010)
Detector Material	Silicon	Silicon	Silicon	Silicon	InGaAs	InGaAs
Rise Time/Fall Time	<300 ps/<300 ps	<30 ns/<30 ns	<320 ps/<320 ps	3 ns/3 ns	<175 ps/<175 ps	<175 ps/<175 ps
Responsivity	0.47 A/W at 830 nm	0.6 A/W at 830 nm	0.47 A/W at 830 nm	0.56 A/W at 830 nm	0.9 A/W at 1300 nm	0.85 A/W at 1300 nm ^a
Power Supply	9 VDC	24 VDC	9 VDC	24 VDC	6 VDC	6 VDC
Bandwidth	>1.2 GHz	>25 MHz	>1.1 GHz	>118 MHz	>2 GHz	>1.5 GHz
Active Area Diameter	0.4 mm	4.57 mm	0.4 mm	2.55 mm	100 μm	100 μm
Dark Current	<0.1 nA	<10 nA	<0.1 nA	<10 nA	<2.0 nA	<1.0 nA
Acceptance Angle (1/2 angle)	10°	60°	N/A ^b	50°	20°	N/A ^b
Noise Equivalent Power	<0.01 pW/√Hz	<0.09 pW/√Hz	<0.01 pW/√Hz	<0.10 pW/√Hz	<0.03 pW/√Hz	<0.02 pW/√Hz
Maximum Linear Rating	CW current: 3 mA Pulse current: 3 mA	CW current: 2 mA Optical input: 3 mW	CW current: 3 mA Optical input: 3 mA	CW current: 2.5 mA Pulse current: 15 mA	CW current: 5 mA	CW current: 5 mA
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
Output Connector	BNC	BNC	BNC	BNC	BNC	BNC

Product specifications are subject to change. All products are RoHS compliant.

^a Measured with 50 μm, 0.2 NA GI fiber

^b Includes FC receptacle



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