



Electro-Optics Technology, Inc.

## Photodetectors with Analog & TTL Outputs



Applications:	Features:
<ul style="list-style-type: none"> <li>• Triggering applications with TTL output</li> <li>• Monitoring the output of Q-switched lasers</li> <li>• Monitoring the output of externally modulated CW lasers</li> </ul>	<ul style="list-style-type: none"> <li>• Can generate analog or TTL output</li> <li>• Contains pulse stretch feature</li> <li>• Contains an adjustable trigger threshold</li> </ul>

Part No. (Model) <sup>a</sup>	120-10022-0001 (ET-2030TTL)	120-10044-0001 (ET-3000TTL)
Detector Type	PIN	PIN
Detector Material	Silicon	InGaAs
Active Area (dia.)	0.4mm	100 $\mu$ m
Acceptance Angle	10°	20°
Power Supply	12VDC	12VDC
Mounting (Tapped Holes)	8-32 and M4	8-32 and M4
Analog Output		
Risetime/Falltime	<300ps	<175ps
Sensitivity	0.4A/W@830nm	0.8A/W@1.3 $\mu$ m
Frequency Response	DC-1.2GHz	DC-2GHz
Termination	50 $\Omega$ external	50 $\Omega$ external
Maximum Linear Ratings	CW and Pulse Current: 3mA	CW current: 5mA CW power: 20mW
Connector	BNC	BNC
TTL Output		
Risetime	<8ns	<8ns
Falltime	<9ns	<9ns
Adjustable Trigger Threshold	40-500mV	40-500mV
Threshold Monitor	External	External
Minimum Detectable Pulsewidth	8ns	8ns
Frequency Response	DC-60MHz	DC-60MHz
Logic High	>3.0V	>3.0V
Logic Low	<0.5V	<0.5V
Pulse Stretch (when enabled)	100ns typical	100ns typical
Termination	500 $\Omega$	500 $\Omega$
Connector	BNC	BNC

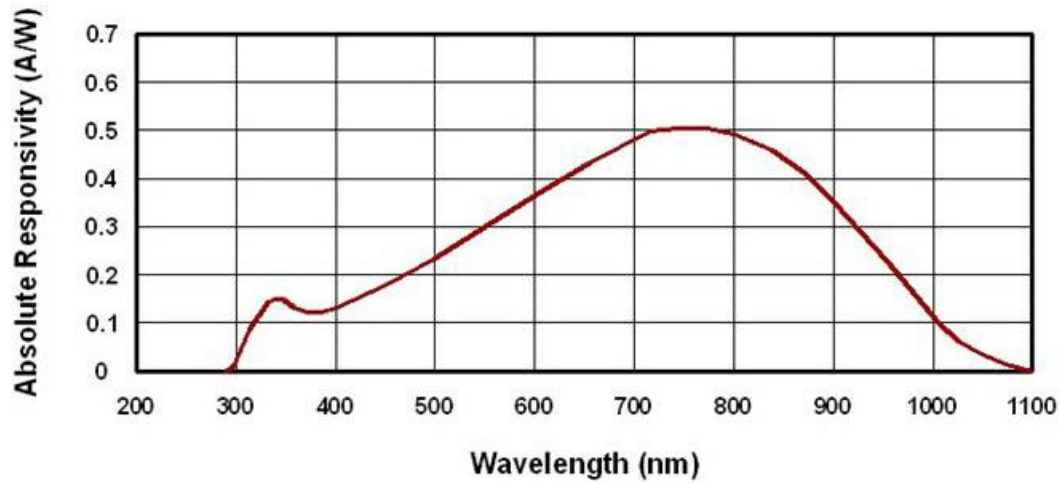
Notes:

- a. Product specifications and pricing subject to change without notice.

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### ET-2030TTL Spectral Responsivity



### ET-3000TTL Spectral Responsivity

