



Electro-Optics Technology, Inc.

## Biased InGaAs Photodetector



Applications:	Features:
<ul style="list-style-type: none"> <li>Monitoring the output of Q-switched lasers</li> </ul>	<ul style="list-style-type: none"> <li>All photodetectors come with their own internal or external power</li> <li>Available with optional FC or SMA input receptacle</li> </ul>
<ul style="list-style-type: none"> <li>Monitoring the output of mode-locked lasers</li> </ul>	
<ul style="list-style-type: none"> <li>Monitoring the output of externally modulated CW lasers</li> </ul>	
<ul style="list-style-type: none"> <li>Time domain and frequency response measurements</li> </ul>	

Part No. (Model) <sup>a</sup>	120-10034-0001 (ET-3000)	120-10050-0001 (ET-3010)	120-10054-0001 (ET-3020)	120-10056-0001 (ET-3040)
Detector Type	PIN	PIN	PIN	PIN
Risetime	<175ps	<225ps	<6ns	<1.25ns
Falltime	<175ps	<225ps	<250ns	<3.70ns
Responsivity @1300nm	0.8A/W	0.8A/W	0.8A/W	0.9A/W
Bias Voltage	6V	6V	Non-biased <sup>b</sup>	6V
Cut Off Frequency into 50Ω	>2GHz	>1.5GHz	>2.5MHz	>50MHz
Active Area	100μm	100μm	3.0mm dia.	1.0mm dia.
Dark Current	<1nA	<1nA	<2000nA	<20nA
Junction Capacitance	<0.75pF	<1.25pF	<1300pF	<32pF
Reverse Breakdown Voltage	25V	25V	2V	20V
Acceptance Angle (1/2 angle)	20°	N/A	50°	50°
Noise Equivalent Power	<0.1pW/√Hz	<0.1pW/√Hz	<1pW/√Hz	<0.1pW/√Hz
Maximum Linear Ratings	CW current: 5mA	CW current: 5mA	CW current: 5mA	CW current: 5mA
Mounting (Tapped Holes)	8-32 or M4	8-32 or M4	8-32 or M4	8-32 or M4
Output Connector	BNC	BNC	BNC	BNC
Fiber Optic Connector	N/A	FC	N/A	N/A

Notes:

- Product specifications and pricing subject to change without notice.
- Operates in the photovoltaic mode.

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