

## InGaAs/Silicon光电探测器

### 应用：

- 监测调Q激光器的输出
- 监测锁模激光器的输出
- 监测外调制连续激光器的输出
- 时域和频率响应测试

### 特点：

- 内置或外接电源可选



EOT InGaAs/Silicon光电探测器内置的PIN光电二极管，通过光伏效应将光功率转换成电流。当通过50欧姆电阻连接到示波器时，可以测量激光器的脉宽。当通过50欧姆电阻连接到光谱分析仪时，可以测量激光器的频率响应。EOT InGaAs/Silicon光电探测器采用内置偏压电源，锂电池寿命很长。通过一根同轴电缆连接光电探测器的BNC输出口，并通过50欧姆电阻连接示波器或光谱分析仪，就足以运行。

### 技术参数<sup>a</sup>

Part No. (Model)	120-10000-0001 (ET-2000)	120-10011-0001 (ET-2030)	120-10028-0001 (ET-2040)	120-10133-0001 (ET-2060)	120-10134-0001 (ET-2070)
Rise Time/Fall Time	<350ps/<350ps	<300ps/<300ps	<30ns/<30ns	<320ps/<320ps	3ns/3ns
Responsivity at 830nm	0.03A/W	0.47A/W	0.6A/W	0.47A/W	0.56A/W
Power Supply	3VDC	9VDC	24VDC	9VDC	24VDC
Bandwidth	>1.0GHz	>1.2GHz	>25MHz	>1.1GHz	>118MHz
Active Area Diameter	110μm x 55μm	0.4mm	4.57mm	0.4mm	2.55mm
Dark Current	<0.11nA	<0.1nA	<10nA	<0.1nA	<10nA
Acceptance Angle (1/2 angle)	20°	10°	60°	N/A <sup>b</sup>	50°
Noise Equivalent Power	<0.15pW/√Hz	<0.01pW/√Hz	<0.09pW/√Hz	<0.01pW/√Hz	<0.10pW/√Hz
Maximum Linear Rating	CW current: 20mA Energy per 10ns pulse: 20μJ	CW current: 3mA Pulse current: 3mA	CW current: 2mA Optical input: 3mW	CW current: 3mA Optical input: 3mA	CW current: 2.5mA Pulse current: 15mA
Mounting (Tapped Holes)	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

a Product specifications are subject to change.  
Note: All products are RoHS compliant.

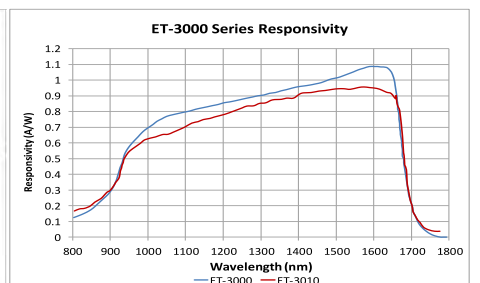
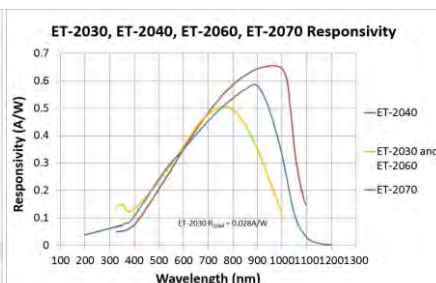
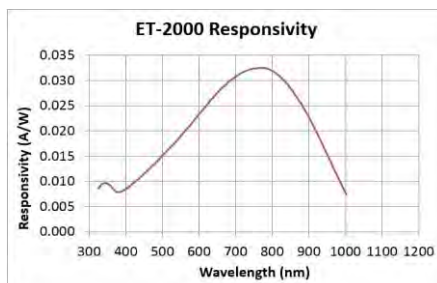
b Includes FC receptacle

Part No. (Model)	120-10034-0001 <sup>b,c</sup> (ET-3000)	120-10050-0001 <sup>b</sup> (ET-3010)	120-10054-0001 <sup>b</sup> (ET-3020)	120-10056-0001 <sup>b</sup> (ET-3040)
Rise Time/Fall Time	<175ps/<175ps	<175ps/<175ps	<6ns/<250ns	<1.25/<3.70ns
Responsivity at 1300nm (A/W)	0.9	0.85 <sup>d</sup>	0.9	0.9
Power Supply (VDC)	6	6	Non-biased <sup>e</sup>	3
Bandwidth	>2GHz	>1.5GHz	>2.5MHz	>50MHz
Active Area Diameter	100μm	100μm	3.0mm	1.0mm
Dark Current (nA)	<2.0	<1.0	N/A	<10
Acceptance Angle (1/2 angle)	20°	N/A	50°	50°
Noise Equivalent Power (pW/√Hz)	<0.03	<0.02	5	<0.06
Maximum Linear Rating	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

a Product specifications are subject to change.  
d Operates in photovoltaic mode

b Includes FC receptacle  
Note: All products are RoHS compliant.

c Measured with 50 μm, 0.2NA GI fiber



Electro-Optics Technology, Inc.