



Biased Silicon Photodetector



Applications:	Features:
<ul style="list-style-type: none"> Monitoring the output of Q-switched lasers 	<ul style="list-style-type: none"> All photodetectors come with their own internal or external power
<ul style="list-style-type: none"> Monitoring the output of mode-locked lasers 	<ul style="list-style-type: none"> Combination 110/220VAC external power supply for externally biased models
<ul style="list-style-type: none"> Monitoring the output of externally modulated CW lasers 	<ul style="list-style-type: none"> Available with optional FC or SMA input receptacle
<ul style="list-style-type: none"> Time domain and frequency response measurements 	

Part No. (Model) ^a	120-10000-0001 (ET-2000)	120-10006-0001 (ET-2020)	120-10011-0001 (ET-2030)	120-10028-0001 (ET-2040)
Detector Type	PIN	PIN	PIN	PIN
Risetime	<200ps	<1.5ns	<300ps	<30ps
Falltime	<350ps	<1.5ns	<300ps	<30ps
Responsivity @830nm	0.4mA/W	0.5A/W	0.4A/W	0.5A/W
Bias Voltage	3V	24V	9V	24V
Cut Off Frequency into 50Ω	>1.5GHz	>200MHz	>1.2GHz	>25MHz
Active Area	0.006mm ²	2.55mm dia.	0.4mm dia.	4.57mm dia.
Dark Current	<1nA	<10nA	<0.1nA	>20nA
Junction Capacitance	<4pF	<10pF	<1.5pF	<45pF
Reverse Breakdown Voltage	40V	150V	20V	50V
Acceptance Angle (1/2 angle)	20°	50°	30°	60°
Noise Equivalent Power	<0.1pW/√Hz	<1.0pW/√Hz	<0.0015pW/√Hz	<0.16pW/√Hz
Maximum Linear Ratings	20ns pulse @20mJ for 3mm dia. beam (damage)	CW density <5mA/mm ² Pulse Density <20mA/mm ²	<10mA	CW current <2mA Optical Input <3mW
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
List Price (USD)	\$275	\$395	\$275	\$295

Notes:

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

