



## DS1079 : Low Noise Si Photodetector



### Specifications :

Photodiode type	Si Package options : standard.
Photodiode size	diam. 0,4 mm
Response	320 nm to 1000 nm
Transimpedance gain	5,4 · 10 <sup>6</sup> V/A
Bandwidth	DC to 2,3 MHz
Sensitivity @ max = 760 nm	2,6 V/W
Output impedance	50
Output voltage (50 )	0 to 1,7 V
Output voltage (HI-Z)	0 to 3,4 V
Offset	
Noise (typical) from 10 Hz to 500 kHz <sup>1)</sup>	-111 dBm/Hz
Noise max @ 0,83 kHz	-108 dBm/Hz
NEP @ 500 kHz @ max = 760 nm	0,47 pW/Hz
Head size	diam. 25 × 50 mm
Weight	30 g
Output connector	Lemo ERA.01.250
Power supply connector <sup>2)</sup>	Lemo EGG.0B.304
Power requirements <sup>3)</sup>	± 5 V, 60 mA

- 1) Tested with our low noise LAS125 power supply.
- 2) Cable assembly, Lemo/BNC is provided.
- 3) Our LAS125 power supply is recommended, but any low noise power supply can be used. In this case, you have to order our PSC1 power supply cable, or the Lemo FGG.0B.304.CLAD42 connector.