



DG1220 : Low Noise InGaAs Photodetector



Specifications :

Photodiode type	InGaAs Package options : standard.
Photodiode size	diam. 0,3 mm
Response	800 nm to 2100 nm
Transimpedance gain	$5,4 \cdot 10^6$ V/A
Bandwidth	DC to 1,4 MHz
Sensitivity @ max = 1950 nm	6,5 V/W
Output impedance	50
Output voltage (50)	0 to 1,7 V
Output voltage (HI-Z)	0 to 3,4 V
Offset	(adjustable)
Noise (typical) from 10 Hz to 500 kHz ¹⁾	-108 dBm/Hz
Noise max @ 0,8 kHz	-105 dBm/Hz
NEP @ 500 kHz @ max = 1950 nm	0,27 pW/Hz
Head size	diam. 25 × 50 mm
Weight	30 g
Output connector	Lemo ERA.01.250
Power supply connector ²⁾	Lemo EGG.0B.304
Power requirements ³⁾	± 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.