



DG100 : Ultra Low Noise InGaAs Photodetector



Specifications :

Photodiode type	InGaAs Package options : standard, FC.
Photodiode size	diam. 0,1 mm
Response	800 nm to 1800 nm
Transimpedance gain	1,4 · 10 ⁶ V/A
Bandwidth	DC to 7,5 MHz
Sensitivity @ max = 1300 nm	1,2 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 800 kHz ¹⁾	-128 dBm/Hz
Noise max @ 6 kHz	-115 dBm/Hz
NEP @ 800 kHz @ max = 1300 nm	0,14 pW/Hz
Head size	diam. 25 × 60,5 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.