



DS1059:Low noise SI Photodetector



Photodiode type	SI
	Package options:
Photodiode size	Diam. 1.2 mm
Response	320 nm to 1060 nm
Transimpedance gain	12.2* 10 ⁶ V/A
Bandwidth	DC to 1.6 MHz
Sensivity @ λ max = 900 nm	7.7 V/μW
Output impedance	50 Ω
Output voltage (50 Ω)	0 to 1.7 V
Output voltage (HI-Z)	0 to 3.4 V
Offset	<5mV (adjustable)
Noise (typical) from 10 Hz to 200 kHz	-116 dBm/Hz
Noise max @ 1.6 MHz	106 dBm/Hz
NEP @ 1.5 MHz @ λ max = 900 nm	92fW/√Hz
Head size	diam. 25 × 65 mm
Weight	30 g
Output connector	Lemo ERA.01.250
Power supply connector	Lemo ERA.0B.403
Power requirements	± 5 V , 60 mA

DS1059:SI Photodetector. Frequency and noise spectra

fig.1 -3 dB bandwidth

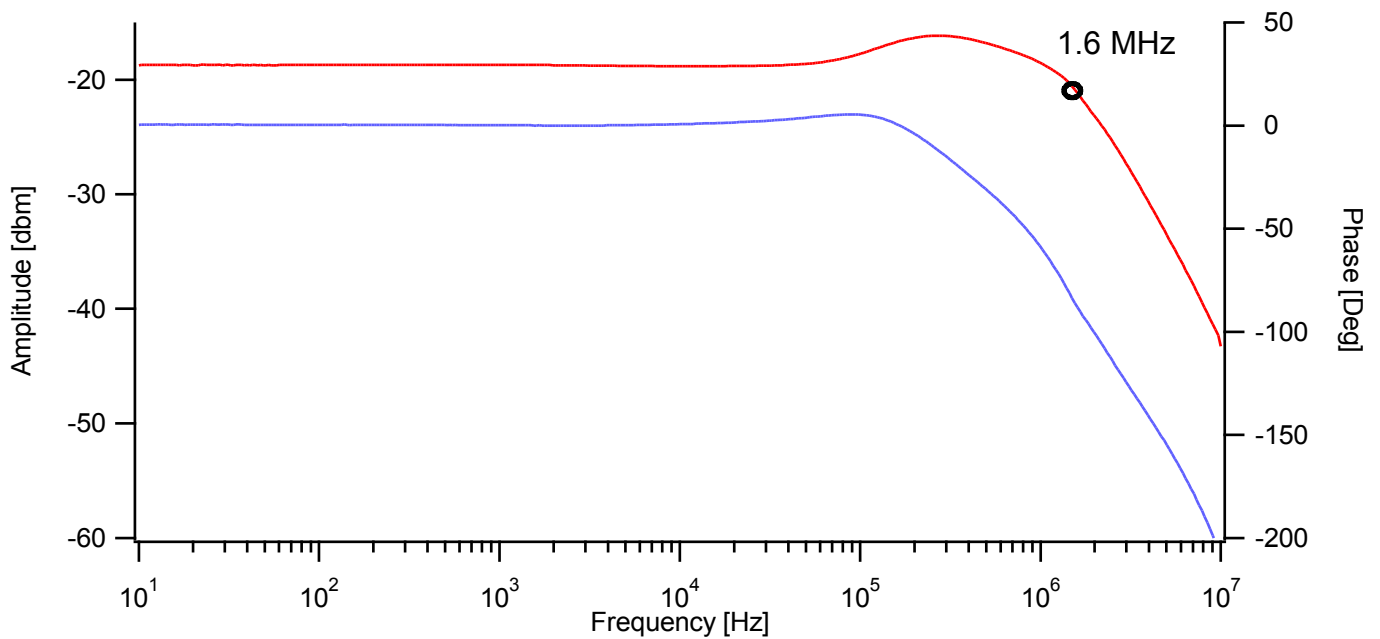


Fig. 2 10Hz 200 kHz noise spectrum

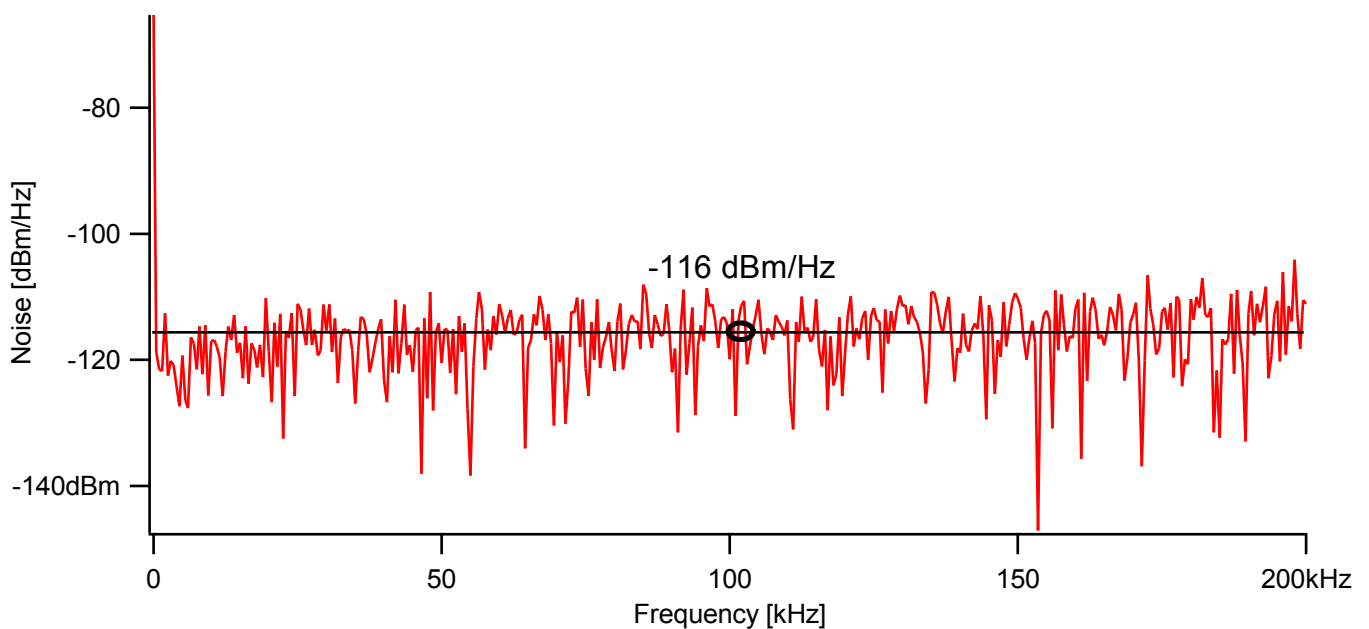


fig. 3 10Hz 2 MHz noise spectrum

