Si Balance Photodetector



Description:

High speed and low noise balance photo detector consists of two matched ultra-low noise analog photodiodes, a low noise broadband transimpedance amplifier and Ultra Low Noise power supply. Due to high gain, high sensitivity, high bandwidth, low noise, and high common mode rejection ratio, the high speed and low noise balance photo detector can effectively reduce the commonmode noise, and improve the signal-to-noise ratio of the system.

Features:

- Low Noise
- High Bandwidth
- High Transimpedance Gain
- Compact Structure
- Built-in low noise isolation
- Power supply

Application:

- Optical Fiber Sensing
- Doppler Wind Lidar
- OCT
- Laser Ranging
- Spectrometry

Specifications:

Product Model	MBD-100M-B	MBD-200M-B	MBD-300M-B	MBD-400M-B	MBD-1G-B	MBD-2G-B	Unit
Detector Model	Si						
Wavelength	400~1100						nm
Bandwidth	100M	200M	300M	400M	1G	2G	Hz
Detector Responsivity	0.55	0.55	0.55	0.55	0.55	0.55	A/W@1550nm
Transimpedance Gain	30K	30K	30K	10K	30K	15K	V/A
Saturated Input Optical Power	240	240	240	725	240	480	μW
NEP	11	11	11	14	20	20	pW/Sqrt(Hz)
CMRR	>30	>30	>30	>30	>30	>30	Ω
Output Impedance	50	50	50	50	50	50	
Output Coupling Mode	DC/AC	DC/AC	DC/AC	DC/AC	AC	AC	V
Supply Voltage	5	5	5	5	12	12	A
Supply Current	0.3(max)	0.3(max)	0.3(max)	0.3(max)	0.3(max)	0.3(max)	
Optical Input	FC/APC (or Free Space)						
Radio Frequency Output	SMA						mm
Shape Size	62*47*25						

200M Bottom Noise Spectrum

