InGaAs Butterfly Balance Photodetector



Description

Two matching ultra-low noise analog PIN detectors and low noise broadband transimpedance amplifiers are integrated into the butterfly packaged optoelectronic balance detector, which are powered by a single power supply. It can effectively reduce the common mode noise of the signal and improve the signal-to-noise ratio of the system. The detector has both the performance of the original module and the advantages of small size, light weight and low power consumption, and is particularly suitable for module and system integration. Notice: We only sell InGaAs Butterfly Balance Photodetector not include the driving Board.

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





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Specifications

Product Model	DBD-100M-ADBD-200M-ADBD-300M-ADBD-400M-ADBD-1G-ADBD-2G-A						Unit
Detector Model	InGaAs						
Wavelength	800~1700						nm
Bandwidth	100M	200M	300M	400M	1G	2G	Hz
Detector Responsivity	0.95	0.95	0.95	0.95	0.95	0.95	A/W@1550nm
Transimpedance Gain	30K	30K	30K	10K	30K	15K	V/A
CMRR	>30	>30	>30	>30	>30	>30	dB
Saturated Input Optical Power	130	130	130	390	130	260	μW
NEP	5	5	5	7	9	9	pW/Sqrt(Hz)
Output Impedance	50	50	50	50	50	50	Ω
Output Coupling Mode	DC/AC	DC/AC	DC/AC	DC/AC	AC	AC	
Supply Voltage	5	5	5	5	12	12	V
Supply Current	0.2(max)	0.2(max)	0.2(max)	0.2(max)	0.2(max)	0.2(max)	A
Optical Input	SM FC/APC (PM choose)						
Radio Frequency Output	MCX (Female)						
Shape Size	25*22*10.5						mm

Test Results









Mini-MODULE: DBD-100M-A



RBW=100Hz; VBW=100Hz

RBW=10KHz; VBW=1KHz







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