InGaAs Ultra Low Noise PIN Detector Module (Analog Output)



Description:

The high-speed low-noise photodetector module integrates ultra-low noise analog pin detector, low-noise broadband transimpedance amplifier and ultra-low noise power supply. It has the characteristics of high gain, high sensitivity, high bandwidth, low noise and high common mode rejection ratio. It can effectively reduce the common mode noise of the signal and improve the signal-to-noise ratio of the system.

Features:

- Low noise
- High gain
- High bandwidth
- Compact structure
- Built in low noise isolation power supply

Application:

- Distributed optical fiber sensing
- Lidar
- Optical coherence tomography
- Spectral measurement
- ns level optical pulse detection

Laser Specifications:

PN#	PD-100M-A	PD-200M-A	PD-350M-A	PD-800M-A	PD-1.6G-A	Unit
Detector Type	InGaAs					
Wavelength	800~1700	800~1700	800~1700	800~1700	800~1700	nm
Bandwidth	DC-100M	DC-200M	DC-350M	AC-800M	AC-1.6G	HZ
Detector response	0.95@1550nm	0.95@1550nm	0.95@1550nm	0.95@1550nm	0.95@1550nm	A/W
Transimpedance gain	30k	30k	30k	30k/700	30k/700	V/A
Saturated input optical power	100	150	150	150/2000	150/2000	μW
NEP	5	5	5	9	9	pW/Sqrt(Hz)
Output impedance	50	50	50	50	50	Ω
Output Mode	DC/AC	DC/AC	DC/AC	AC	AC	
Power Supply	5	5	5	12	12	V
Current	0.5(max)	0.5(max)	0.5(max)	0.5(max)	0.5(max)	A
Optical Input	FC/APC	FC/APC	FC/APC	FC/APC	FC/APC	
RF output	SMA	SMA	SMA	SMA	SMA	
Dimensions	75*55*25	75*55*25	75*55*25	75*55*25	75*55*25	mm