Si APD Photodetector



Description:

Si avalanche Photodetector module integrates low-noise APD detector, low-noise broadband transimpedance amplifier, ultra-low noise isolation power supply, high-voltage power supply; isolation power supply ensures that the output signal is not affected by external power supply; APD temperature compensation improves the stability of detection module. Avalanche photodetectors are characterized by high gain, high sensitivity, high bandwidth and low noise.

Features:

- Low Noise and High Gain
- Built-in high voltage power supply
- Temperature compensation
- Compact structure
- Low noise isolation power supply

Application:

- Optical Fiber Sensing
- Optical Fiber Communication
- Laser Ranging
- Spectrometry

Specifications:

Product Model	APD-100M-B	APD-200M-B	APD-300M-B	APD-400M-B	APD-1G-B	APD-2G-B	Unit
Detector	Si						
Wavelength	400~1100						nm
Bandwidth	100M	200M	300M	400M	1G	2G	Hz
Detector Responsivity	25	25	25	25	25	25	A/W@850nm
Transimpedance Gain	300K	300K	300K	300K	300K	300K	V/W
Saturated Input Optical Power	13	13	13	13	13	13	uW
NEP	0.18	0.18	0.18	0.18	0.2	0.2	pW/√(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	0.5(max)	0.5(max)	0.5(max)	0.5(max)	0.5(max)	0.5(max)	A
Optical Input	FC/APC (or Free Space)						
Radio Frequency Output	SMA						
Shape Size	65*50*20						mm