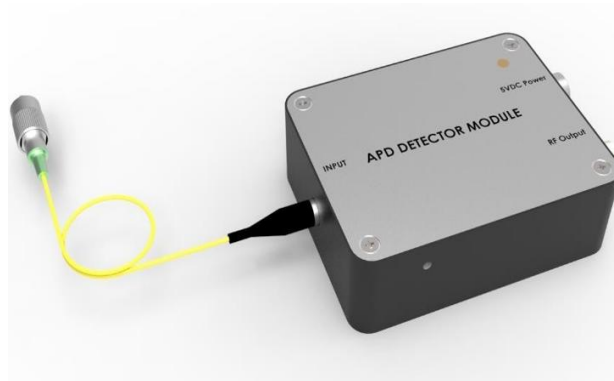


400-1100nm Si Avalanche Balanced Detector 2GHz



● Product Description

The Si Avalanche Balanced Detection Module integrates a low-noise APD detector, a low-noise broadband transimpedance amplifier, ultra-low noise isolated power supply, high-voltage power supply, and APD temperature compensation. The isolated power supply ensures that the output signal is not affected by external power supplies. APD temperature compensation enhances the stability of the detection module.

● Part Number

BAPD-2G-B-FC/APC

● Product features

Low noise, High gain 、 Built-in low-noise isolated power supply 、 Built-in high-voltage power supply 、 APD temperature compensation 、 Compact structure

● Application area

Fiber optic sensing、Fiber optic communication、Laser ranging、Spectral measurement

Parameters

General Parameters

PN#	BAPD-100 M-B	BAPD-200 M-B	BAPD-300 M-B	BAPD-400 M-B	BAPD-500 M-B	BAPD-1 G-B	BAPD-2 G-B	Unit
Detector Type	Si							
Wavelength	400~1100							nm
Bandwidth	100M	200M	300M	400M	500M	1G	2G	Hz
Detector Responsivity	25	25	25	25	25	25	25	A/W@850nm
Transimpedance Gain	300K	300K	300K	300K	300K	300K	300K	V/W
Output Impedance	50	50	50	50	50	50	50	Ω
NEP	0.18	0.18	0.18	0.18	0.18	0.18	0.2	pW/ $\sqrt{\text{Hz}}$
Output Coupling Method	DC/AC	DC/AC	DC/AC	DC/AC	DC	AC	AC	
Power Supply Voltage	5	5	5	5	5	12	12	V
Power Supply Current	0.5(max)	0.5(max)	0.5(max)	0.5(max)	0.5(max)	0.5(max)	0.5(max)	A
Optical Input	FC/APC (Free-space optical optional)							
RF Output	SMA							
Dimensions	80*90*25							mm