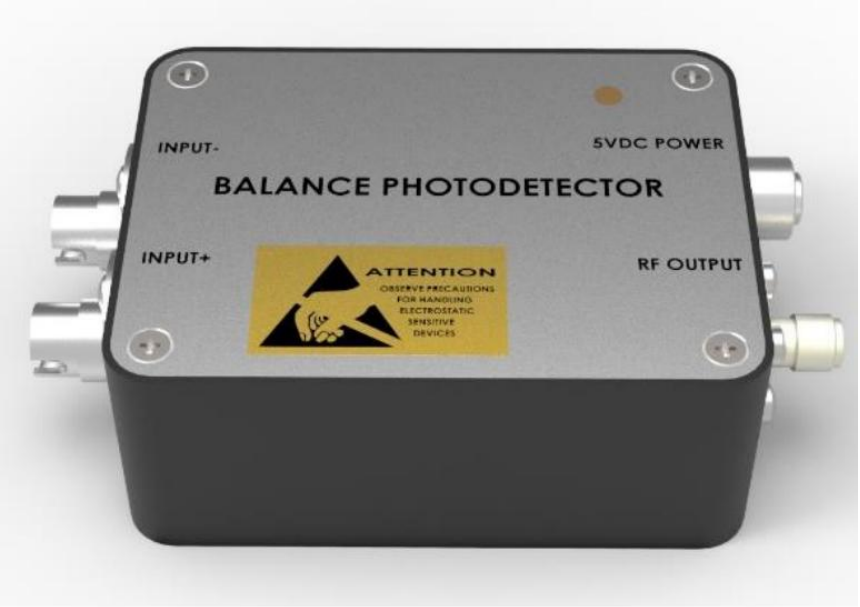
Si balanced photodetector 400MHz, 400-1100nm, FCAPC



Product Description

Si Balanced detector module integrates two matched low-noise analog PIN detectors, low-noise broadband transimpedance amplifiers, and ultra-low-noise power supplies. It features high gain, high sensitivity, high bandwidth, low noise, and high common-mode rejection ratio, which can

effectively reduce common-mode noise in the signal and improve the system's signal-to-noise ratio.

Product features

Low Noise、 High Gain、 High Bandwidth、 Compact Design、 Built-in Low Noise Isolated Power Supply

Part Number

MP-BPD-M-S-400-F-D/A

Application area

Fiber Optic Sensing、Fiber Optic Communication、Laser Ranging、Spectral Measurement、 Nanosecond-Level Light Pulse Detection

Core parameters

Wavelength	Bandwidth	Responsivity
400-1100nm	400MHz	0.55A/W@850nm

• General Parameters

The main technical parameters of the AUT-MP laser:

Material	Si							
Wavelength	400~1100							nm
Bandwidth	100M	200M	300M	400M	500M	1G	2G	Hz
Detector Responsivity	0.55	0.55	0.55	0.55	0.55	0.55	0.55	A/W@850nm
Transimpedance Gain	30K	30K	30K	10K	5K	30K	15K	V/W
Maximum Input Optical Power	240	240	240	725	1450	240	480	Ω
NEP	11	11	11	14	18	20	20	uW
Output Impedance	50	50	50	50	50	50	50	pW/√(Hz)
Output Coupling	DC/AC	DC/AC	DC/AC	DC/AC	DC	AC	AC	
Supply Voltage	5	5	5	5	5	12	12	V
Supply Current	0.3(max)	0.3(max)	0.3(max)	0.3(max)	0.3(max)	0.3(max)	0.3(max)	A
Optical Input	FC/APC（Free-space optical input optional）							
RF Output	SMA							
Dimensions	62*47*25							mm