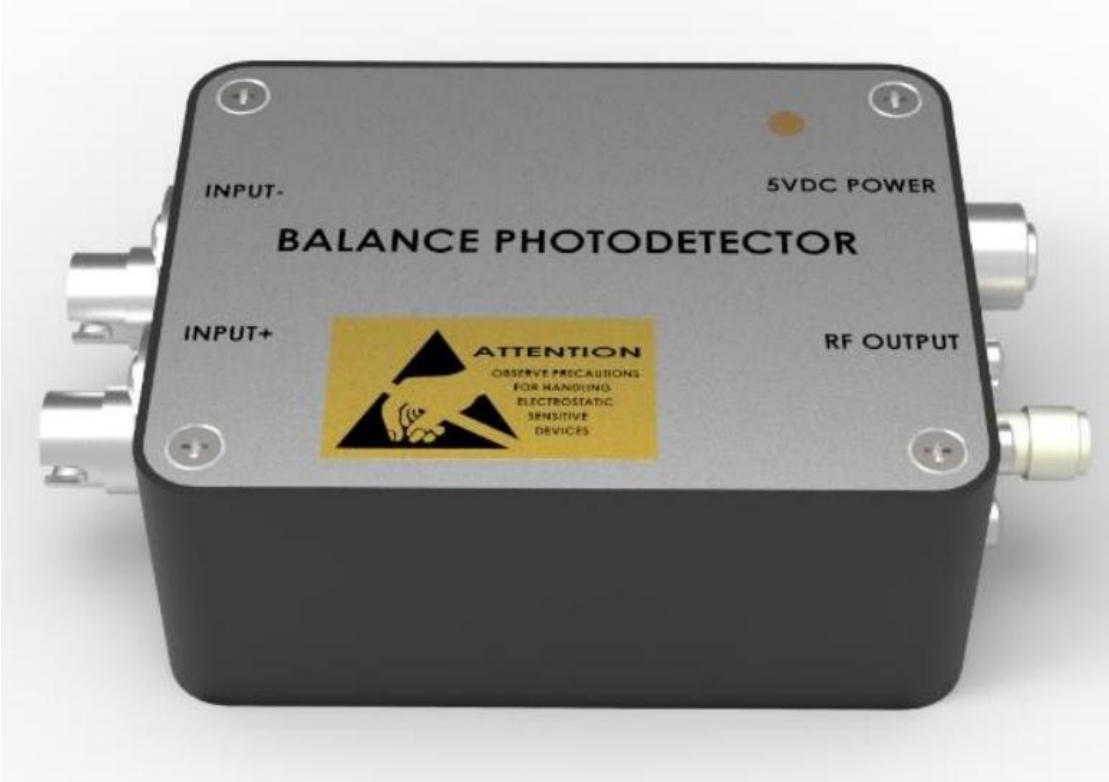
Si Balanced Detector 2GHz 500-1100nm FC/APC



Product Description

The Si balanced detection module integrates two matched low-noise analog PIN detectors, a low-noise broadband transimpedance amplifier and an ultra-low noise power supply. It has the characteristics of high gain, high sensitivity, high bandwidth, low noise, high common mode rejection ratio, etc. It can effectively reduce the common mode noise of the signal and improve the signal-to-noise ratio of the system.

Part Number

MBD-2G-B-FC/APC

● Product features

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

● Application area

Fiber Optic Sensing、 Fiber Optic Communications、 Laser Distance Measurement、 Spectral measurement、 Ns-Level Optical Pulse Detection

General parameters

Product Model	MBD-100M-B	MBD-200M-B	MBD-300M-B	MBD-400M-B	MBD-500M-B	MBD-1G-B	MBD-2G-B	unit
Detector Type	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/A
Max input optical power	240	240	240	725	1450	240	480	μW
NEP	11	11	11	14	18	20	20	pW / Sqrt (Hz)
Output Impedance	50	50	50	50	50	50	50	Ω
Output coupling mode	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 optional)							
RF Output	SMA							
Dimensions	62*47*25							mm