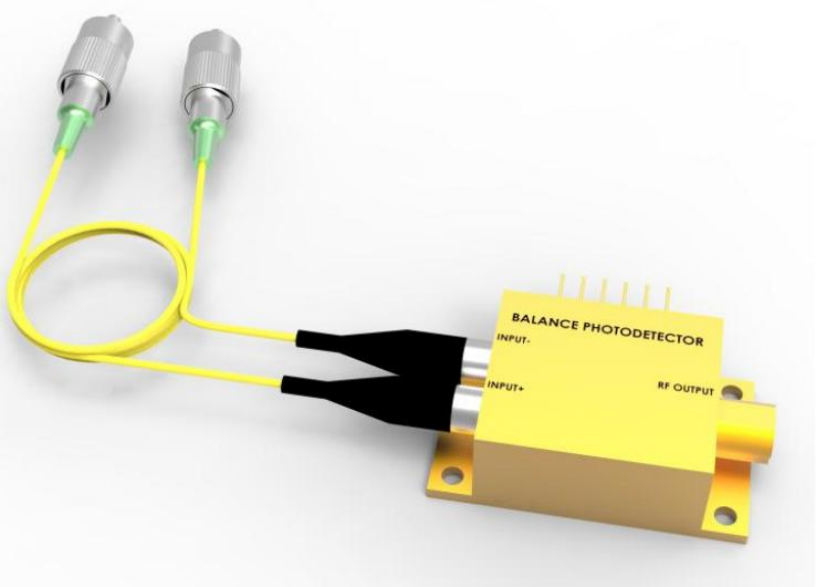
InGaAs Butterfly Balance Photodetector

(1100nm-1700nm)



Product Description

InGaAs low-noise optoelectronic balanced detectors have a wide range of applications in high-end detection optics due to their low noise characteristics and excellent dynamic response. Whether it is device communication, LiDAR, quantum communication, or infrared imaging, it can provide stable and accurate detection performance and is a key component carried in high-performance optical systems.

Product features

Butterfly Package、 High Bandwidth DC~400MHz、 High Gain 60KV/A、 Low Noise

Part Number

MP-BPD-D-I-200-F-D/A

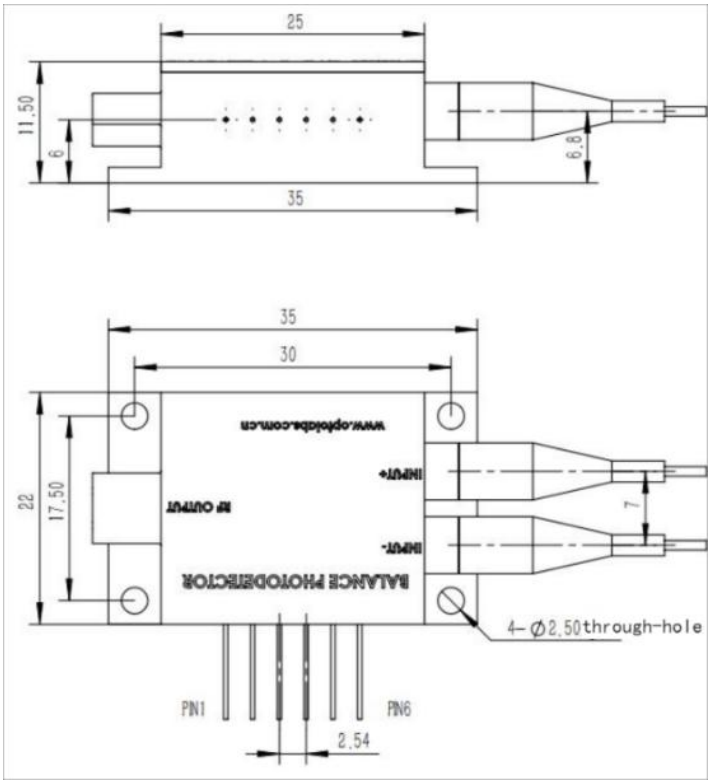
Application area

Distributed Optical Fiber Sensing, including ψ-OTDR, C-OTDR, DAS, etc、 LIDAR (Laser Doppler Wind Radar)、 Optical Coherence Tomography (OCT)

Core parameters

Wavelength	Bandwidth
1100-1700nm	200MHz

Dimension Drawing



General Parameters

Technical Parameters

Parameters	Range	Unit
Wavelength	1100~1700	nm
Bandwidth	200	MHz
Detector Responsivity	0.95@1550nm	Aw
Detector Type	lnGaAs	
Transimpedance Gain*1	60K	v/A
Saturation Input Optical Power	60	uw

NEP	5	pW/Sqrt(Hz)
Output Impedance	50	
Common Mode Rejection Ratio	>25	dB
Output Coupling Type*2	AC/DC	
Supply Voltage	5	v
Supply Current	0.2(max)	A
Package Type	Butterfly Package	
Optical Input	FC/APC	
RF Output	MCX	

*1：The gain values given in the table are for the standard amplification factor. Other amplification factors can be customized based on customer requirements.

*2：The coupling type can be determined according to customer requirements.