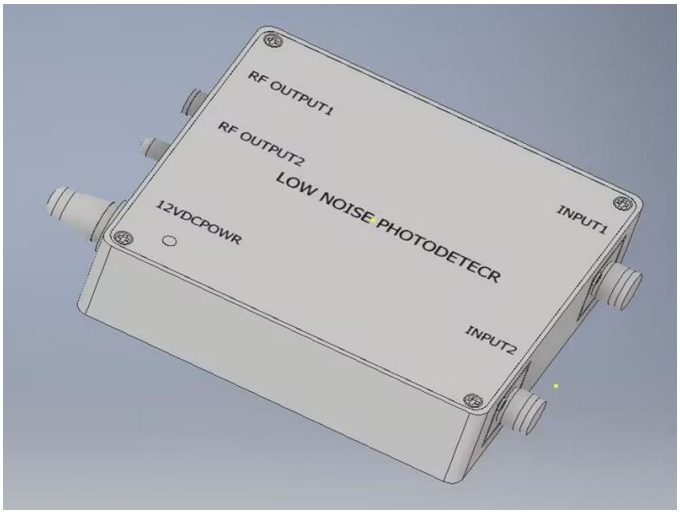
1.6GHz Dual Port Low Noise Photodetector



Description

The Dual ports high-speed low-noise photodetector module integrates two separately ultra-low noise analog pin detector, low-noise broadband transimpedance amplifier and ultra-low noise power supply. It has the characteristics of high gain, high sensitivity, high bandwidth, low noise and high common mode rejection ratio. It can effectively reduce the common mode noise of the signal and improve the signal-to-noise ratio of the system.

Features

- Low Noise
- High Bandwidth
- High Transimpedance Gain
- Compact Structure
- Built-in low noise isolation power supply

Application

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

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Specifications

Part Number	PD-1.6G-2-A	Unit
Detector type	InGaAs	-
Wavelength	800~1700	nm
bandwidth	1.6G	Hz
Detector responsivity	0.95@1550nm	A/W
Transimpedance Gain	30K	V/A
Saturated input optical power	150	uW
NEP	9	pW/Sqrt(Hz)
Output Impedance	50	Ω
Output coupling mode	AC	
power supply voltage	12	V
Powe Supply Current	0.5(max)	A
OPT IN	FC/APC	
RF OUTPUT	SMA	
Demensions	80*80*25	mm

Instructions

1. The power supply voltage of the module is 5V, and the maximum power supply current is 0.8A.
2. 5VDC is the power interface; Input is the optical input interface; RF is the RF output interface.
3. Before accessing the input end, ensure that the end face is clean to prevent dirt from affecting the measurement results.

Package Size