

BD200FC-InGaAs 200MHz Balanced Detector



Features

- Operates over 1260nm to 1625nm wavelengths
- Bandwidth > 200MHz
- FC/APC fiber coupled optical inputs or pigtailed 50cm SM fibers
- 50Ω terminated RF output on SMA
- Matched InGaAs photodiodes
- Ruggedised metal enclosure with M4 mounting holes underneath

Applications

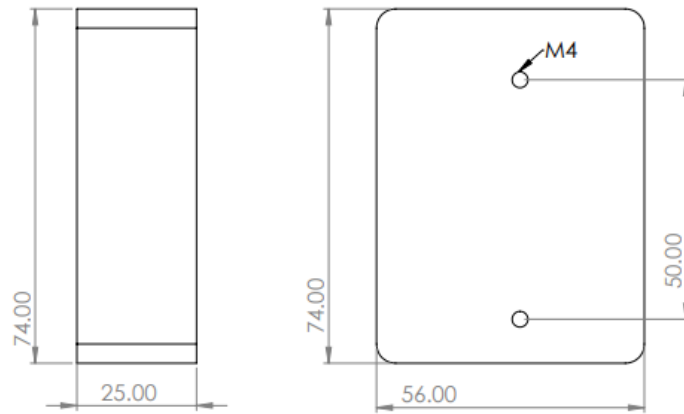
- Balanced Homodyne Detection
- Quantum State Tomography
- Continuous Variable Quantum Information Processing
- Optical Coherence Tomography
- LiDAR

Specifications

Specifications below are typical values at an ambient temperature of 27°C, wavelength of 1550nm and with an output termination of 50Ω.

Parameter	Specification	Notes
Wavelength Range	1260nm to 1625nm	
Optical input power	10dBm	Absolute maximum
Bandwidth	200MHz	
Transimpedance	28kΩ	
Noise Equivalent Power (NEP)	4pW/√Hz	Minimum, DC to 100MHz
CMRR	40dB	
Quantum to Circuit Noise Ratio	18dB at 100MHz	Power of 5mW per diode
Output termination	50Ω	
DC Power Input	±12V	Power supply included
Dimensions	74mm x 56mm x 25mm	
Mounting holes	2 x M4	Separated by 50mm
Optical Input	FC/APC or pigtailed SMF	

Dimensions



All dimensions are in mm.