

100MHZ Dual Port InGaAs APD Photodetector



Description:

The Dual Ports APD modules include Two separately APD detectors enable very low light levels to be detected quickly and simply in a variety of applications such as laser radar, rangefinding, data transfer or biomedical analysis. The APD modules are based on low-noise avalanche photodiodes made of either silicon or InGaAs with a built-in pre-amplifier and high voltage supply. A temperature compensation function allows the APD to be operated at constant gain across a wide operating temperature range.

Features:

- Low noise
- High-gain
- Built-in high voltage power supply
- APD temperature compensation
- Built-in bottom noise isolation power supply

Application:

- Fibre optical Sensors
- Fiber optic communication
- Optical coherence tomography
- Spectral measurement
- Other scientific research applications

Specifications:

Product model	APD-100M-2-A	Unit
Detector type	InGaAs	
bandwidth	100M	Hz
Detector responsiveness	9@1550nm (M=10)	A/W
High-Speed Transimpedance Gain Stage	300K	V/W
saturation power	13	uW
NEP	0.46	pW/ $\sqrt{\text{Hz}}$
Output Impedance	50	Ω
supply voltage	5	V
Output coupling mode	DC	
supply current	0.8(max)	A
Optical input	FC/APC	
Radio frequency output	SMA	
boundary dimension	65*98*20	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.

Test result:

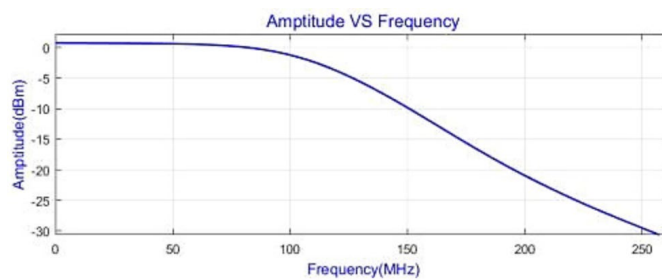


Fig1 Flat detector amplitude-frequency curve

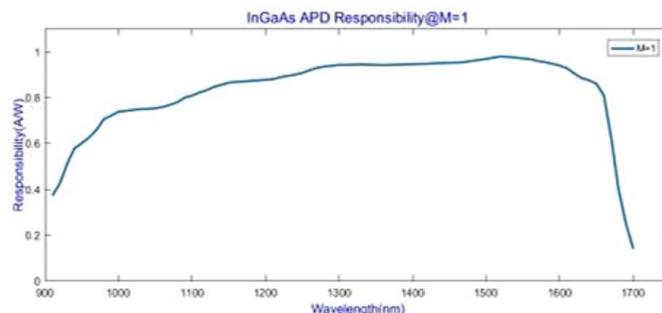


Fig2 Detector response curve@M=1

Package Size:

Unit (mm)

