

Si APD Photodetector 1GHz 400-1100nm

FC/APC



- **Product Description**

The Si APD Photodetector module integrates a low-noise APD detector, a low-noise broadband transimpedance amplifier, an ultra-low noise isolated power supply, a high-voltage power supply, and APD temperature compensation; the isolated power supply ensures that the output signal is not affected by the external power supply; the APD temperature compensation improves the stability of the detection module. The avalanche photodetector has the characteristics of high gain, high sensitivity, high bandwidth, and low noise



● Product features

Low noise 、 High gain 、 Built-in high voltage power supply 、 APD
 Temperature Compensation 、 Compact structure 、 Built-in low-noise
 isolated power supply

● Part Number

MP-APD-M-S-1000-F/S-A

● Application area

Fiber Optic Sensing 、 Fiber Optic Communications 、 Laser Distance
 Measurement、 Spectral measurement、 ns- level optical pulse detection

● Core parameters

Wavelength	Bandwidth	Responsivity
400-1100nm	1GHz	25A/W@850nm

● General Parameters

Product Parameters

Material	Si	
Wavelength	400~1100	nm



Bandwidth	100M	200M	300M	400M	500M	1G	2G	Hz
Responsiveness	25	25	25	25	25	25	25	A/W@850 nm
Transimpedance Gain	300K	300K	300K	300K	300K	300K	300K	V/W
Output Impedance	50	50	50	50	50	50	50	Ω
Saturation power	13	13	13	13	13	13	30	μ
NEP	0.18	0.18	0.18	0.18	0.18	0.2	0.2	pW / $\sqrt{\text{Hz}}$
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	0.5(ma x)	0.5(ma x)	0.5(ma x)	0.5(ma x)	0.5(ma x)	0.5(ma x)	0.5(ma x)	A
Optical input	FC/APC (free space optical optional)							
RF Output	SMA							
Dimensions	65*50*20							mm