

InGaAs avalanche photodiode balanced photodetector 800M



● Product Description

The avalanche photodiode (APD) balanced detection module integrates a low-noise APD detector, low-noise broadband transimpedance amplifier, ultra-low-noise isolated power supply, high-voltage power supply, and APD temperature compensation. The isolated power supply ensures that the output signal is not affected by external power sources. The APD temperature compensation improves the stability of the detection module. The avalanche photodetector features high gain, high sensitivity, high



bandwidth, and low noise, making it suitable for applications that require precise and stable optical signal detection.

● 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-ABD-M-I-800-F/S-A

● Application area

Optical fiber sensing 、 Optical fiber communication 、 Laser ranging 、 Spectral measurement

● Core parameters

Wavelength	Bandwidth	Responsivity
800~1700nm	800MHz	9A/W@1550nm

● General Parameters

Technical Parameters

Detector	InGaAs	
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Type													
Wavelength	800~1700												nm
Bandwidth	100	200	300	400	500	600	800	1G	1.2G	1.5G	1.5G	2.5G	Hz
	M	M	M	M	M	M	M						
Detector													A/W@15 50nm
Responsivity	9	9	9	9	9	9	9	9	9	9	9	9	
Transimpedance	300K	300K	300K	100K	50K	50K	300K	300K	300K	200K	150K	150K	V/W
Gain													
Saturation Optical Power	13	13	13	39	78	78	13	13	13	20	20	20	uW
Output Impedance	50	50	50	50	50	50	50	50	50	50	50	50	Ω
NEP	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	0.46	pW/√ (Hz)
Output Coupling	DC/ AC	DC/ AC	DC/ AC	DC/ AC	DC	AC	AC	AC	AC	AC	AC	AC	



Method														
Supply Voltage	5	5	5	5	5	5	12	12	12	12	12	12	12	V
Supply Current	0.5(max)	0.5(max)	0.5(max)	0.5(max)	0.5(max)	0.5(max)	0.5(max)	0.5(max)	0.5(max)	0.5(max)	0.5(max)	0.5(max)	0.5(max)	A
Optical Input	FC/APC(Free space optical input optional)													
RF Output	SMA													
Dimensions	80*90*25													mm

