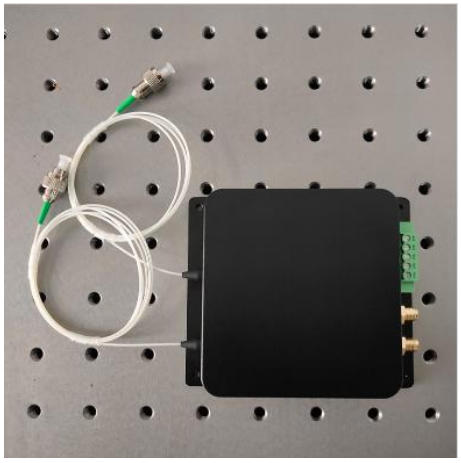
Dual-channel APD Photodetector

P/N: APD22-X



❖ Features & Applications

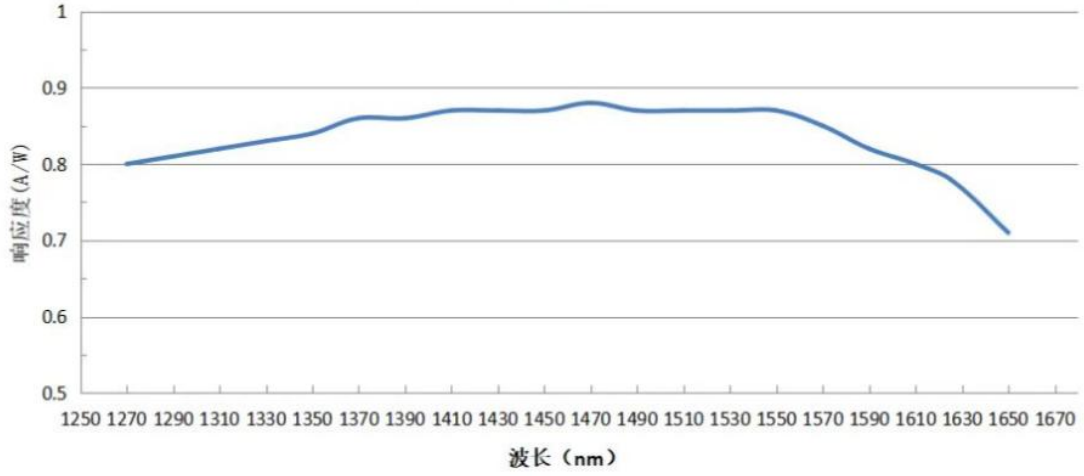
- Digital temperature compensation
- Over-current protection
- Low noise and high gain
- Raman Fiber Optic Temperature Monitoring System（DTS）
- Fiber optic sensing system

❖ Specifications

Attribute	APD22-400M	APD22-200M	APD22-50M	APD22-10M
Number of Channel	2	2	2	2
Materials	InGaAs	InGaAs	InGaAs	InGaAs
Wavelength range	1000-1650nm	1000-1650nm	1000-1650nm	1000-1650nm
Input Connector	FC	FC	FC	FC
Photosensitive diameter	50um	50um	50um	50um
Responsiveness	18A/W @ 1550nm (M = 20)	18A/W @ 1550nm (M = 20)	18A/W @ 1550nm (M = 20)	18A/W @ 1550nm (M = 20)
Bandwidth	DC-400MHz	DC-200MHz	DC-50MHz	DC-10MHz

Attribute	APD22-400M	APD22-200M	APD22-50M	APD22-10M
Rise time	0.9ns	1.8ns	9ns	36ns
Maximum Gain@HiZ	1.8x105 V/W	4x105 V/W	2x106 V/W	9.8x106 V/W
Integrated noise@1550nm	40nW(RMS)	21nW(RMS)	5.5nW(RMS)	2.3nW(RMS)
Saturated optical power@1550nm	16.7uW	7.5uW	1.5uW	0.3uW
Noise voltage	<18mV	<12mV	<15mV	<18mV
Working Voltage	9 - 12VDC	9 - 12VDC	9 - 12VDC	9 - 12VDC
Working current	<200mA	<200mA	<200mA	<200mA
Output connector	SMA	SMA	SMA	SMA
Output Impedance	50Ω	50Ω	50Ω	50Ω
Output coupling mode	DC	DC	DC	DC
Maximum output amplitude	3V	3V	3V	3V
Working temperature	-20~60℃	-20~60℃	-20~60℃	-20~60℃
Storage Temperature	-40~80℃	-40~80℃	-40~80℃	-40~80℃
Dimension	82.5 mm x 64 mm x 25 mm	82.5 mm x 64 mm x 25 mm	82.5 mm x 64 mm x 25 mm	82.5 mm x 64 mm x 25 mm

❖ Response curve



❖ Mechanical dimensions