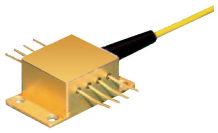
sales@wdmquest.com
www.wdmquest.com

1203 APD (Avalanche Photo Diode)

APD-1550-BT1



BF8 Avalanche Photo Diode (APD)

The APD-1550-BT1 is a BF8 avalanche photo diode (APD). The APD detector series adopts high-performance APD semiconductor chip. The temperature control circuit is composed of built-in semiconductor cooler and temperature sensor in butterfly package. Advanced laser welding technology and hermetic packaging greatly improve the reliability of the device, which makes the temperature control APD widely used in distributed sensors, ultra pulse optical detection, laser radar and other fields.

FEATURES

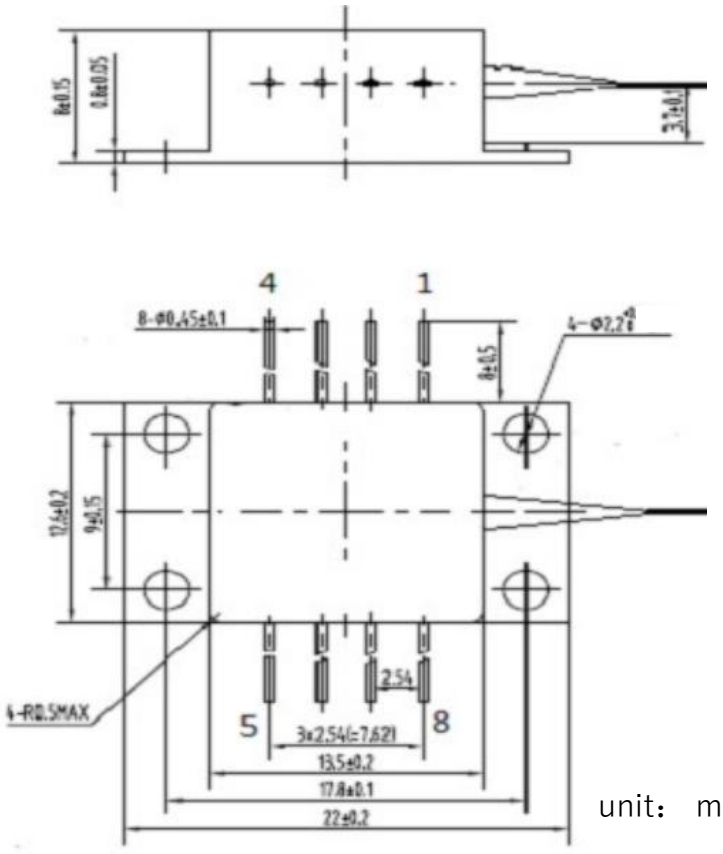
- Low Return Loss
- Low Dark Current
- Temperature Control of Butterfly Packaging
- Hermetic Packaging

USE IN

- Distributed Sensors
- Laser Radar
- Ultra Pulse Optical Detection

FUNCTIONAL DIAGRAM

Pin#	Desc
1	TEC+
2	Thermistor
3	Thermistor
4	APD+
5	APD-
6	NA
7	NA
8	TEC-



unit： mm

Order notes to our customers: The default parameters are as follows. For special needs, please contact sales.

1) Connector FC/APC, 900 um, 1 m by default for all devices except for high power devices.
2) Slow axis working, fast axis blocked, connector key is aligned to slow axis by default for PM devices.

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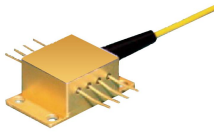

Spectral Range	1000 nm to 1700 nm
Detector Square	50 μm
Responsivity	0.85 A/W min.; 1.25 A/W max.
Max. Gain	20
Bandwidth (-3 dB)	0.5 GHz.; 2.0 GHz typ.
Capacitance	0.5 pF typ.
Reverse Breakdown Voltage	40 V min.; 55 V max.
Operating Voltage	35 V min.; 50 V max.
Dark Current	5 nA typ.; 20 nA max.
TEC Operating Current	1.2 A max.
TEC Operating Voltage	4 V max.
Fiber Type	50/125 μm
Operating Case Temperature	-20 °C to +70 °C
Storage Temperature	-40 °C to +85 °C
Operating Humidity	0% to 90%

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