

0504 APD (Avalanche Photodiode)

APD-1550-BTx2



BF14 Dual Channel Avalanche Photo Diode (APD)

The APD-1550-BTx2 is a BF14 single channel 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, which ensures that the APD chip can work stably under different ambient temperatures, and greatly simplifies the power supply circuit and weak signal detection circuit of APD.

FEATURES

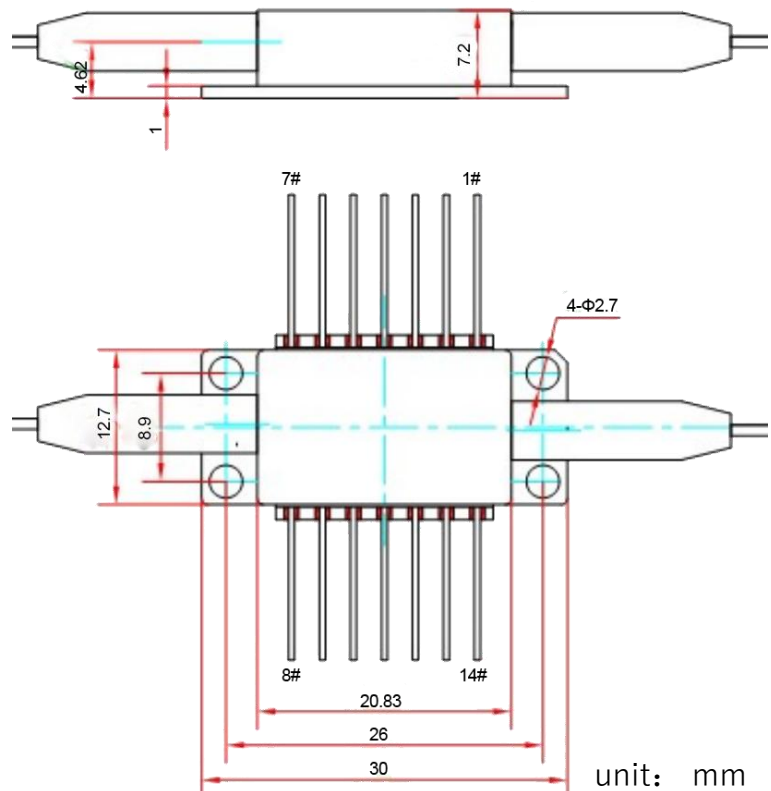
- Low Return Loss
- Low Dark Current
- Temperature Control of Butterfly Packaging
- Hermetic Packaging

USE IN

- Distributed Sensors
- Laser Radar
- Ultra Pulse Optical Detection

FUNCTIONAL DIAGRAM

| Pin# | Desc | Pin# | Desc |
|------|------------|------|-------|
| 1 | TEC+ | 8 | NA |
| 2 | Thermistor | 9 | NA |
| 3 | APD1+ | 10 | APD2+ |
| 4 | APD1- | 11 | APD2- |
| 5 | Thermistor | 12 | NA |
| 6 | NA | 13 | Case |
| 7 | NA | 14 | TEC- |



Order notes to our customers: For special needs, please contact sales.

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| | |
|----------------------------|--|
| Spectral Range | 1000 nm to 1680 nm |
| Detector Square | 50 μ m |
| Responsivity | 0.85 A/W min.; 1 A/W typ.; 1.25 A/W max. |
| Max. Gain | 8 min.; 12 max. |
| Bandwidth (- 3 dB) | 2.5 GHz min. |
| Capacitance | 0.5 pF max. |
| Reverse Breakdown Voltage | 40 V min.; 55 V max. |
| Operating Voltage | 35 V min. |
| 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 μ m or others |
| Operating Case Temperature | -10°C to +70°C |
| Storage Temperature | -40°C to +85°C |

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