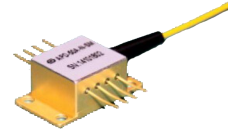


1103 APD (Avalanche Photo Diode)

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

Spectral Range	1000 nm to 1700 nm
Detector Square	50 μ m
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 μ m
Operating Case Temperature	-20°C to +70°C
Storage Temperature	-40°C to +85°C
Operating Humidity	0% to 90%