



## 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
- Ultra Pulse Optical Detection

#### USE IN

- Distributed Sensors
- Laser Radar

Spectral Range	1000 nm to 1680 nm
Detector Square	50 μm
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 μm or others
Fiber Length	1 m default
Optical Connector	FC/APC default
Operating Case Temperature	-10°C to +70°C
Storage Temperature	-40°C to +85°C