

# 1203 APD (Avalanche Photo Diode)

**APD-1550-CX**



## Coaxial Avalanche Photo Diode (APD)

The APD-1550-CX is a coaxial avalanche photo diode (APD). The APD detector series adopts high-performance APD semiconductor chip. Coaxial package APD chip adopts airtight package and laser welding process, which has high reliability.

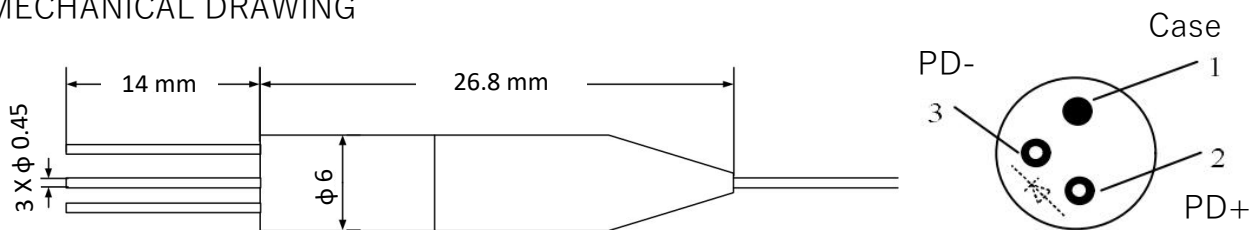
### FEATURES

- Low Return Loss
- Low Dark Current
- Hermetic Packaging

### USE IN

- Distributed Sensors
- Laser Radar
- Ultra Pulse Optical Detection

### MECHANICAL DRAWING



Spectral Range	1000 nm to 1700 nm
Detector Square	50 $\mu\text{m}$
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.
Bandwidth @ -3 dB	0.5 Ghz min.; 2.0 Ghz typ.
Capacitance	0.5 pF typ.
Voltage-temperature Coefficient	0.10 v/ $^{\circ}\text{C}$ typ.; 0.15 v/ $^{\circ}\text{C}$ max.
Operating Case Temperature	-20 $^{\circ}\text{C}$ to +70 $^{\circ}\text{C}$
Storage Temperature	-40 $^{\circ}\text{C}$ to +85 $^{\circ}\text{C}$

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

**1) Connector FC/APC, 900  $\mu\text{m}$ , 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.**