

# 1201 Photodiode

PD-003



## Linear InGaAs PIN Photodiode, 3 MHz

The Optilab PD-003 is a 3 MHz, linear InGaAs PIN photodiode. It features high response, flat structure of InGaAs PIN detector. It has low capacitance, low dark current and housed in a in single-mode fiber coaxial package. This photodiode can be use in HFC transmission optical receiver, RF transmission optical receiver and other analog receiver or power detector.

### FEATURES

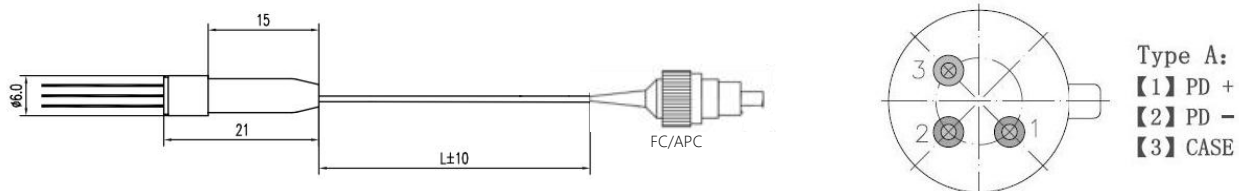
- High Response, Flat Structure of InGaAs PIN Detector
- Low Capacitance and Low Dark Current
- Single-mode Fiber Coaxial Package

### USE IN

- HFC Transmission Optical Receiver
- RF Transmission Optical Receiver
- Other Analog Receiver/Power Detector

### MECHANICAL DRAWING

Unit: mm



Wavelengths	$\lambda_1$ : 1260 nm min.; 1620 nm max. $\lambda_2$ : 1530 nm min.; 1550nm typ.; 1570 nm max. (With Filter)
Saturated Optical Power	2 mW max.
Dark Current	0.2 nA max.
Responsivity	0.85 A/W min.; 0.9 A/W typ.
Forward Current	2 mA typ.
Bandwidth	2.5 MHz min.; 3 MHz typ.; 10 MHz max.
Junction Capacitance	40 dB typ.
Return Loss	45 dB typ.
CSO	-70 dBc typ.
CTB	-80 dBc typ.
Storage Temperature	-40°C to +85°C
Operating Temperature	-20°C to +70°C
Operating Current	10 mA
Operating Voltage	5 V
PD Reverse Voltage	30 V
PD Reverse Current	5 mA

**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.**