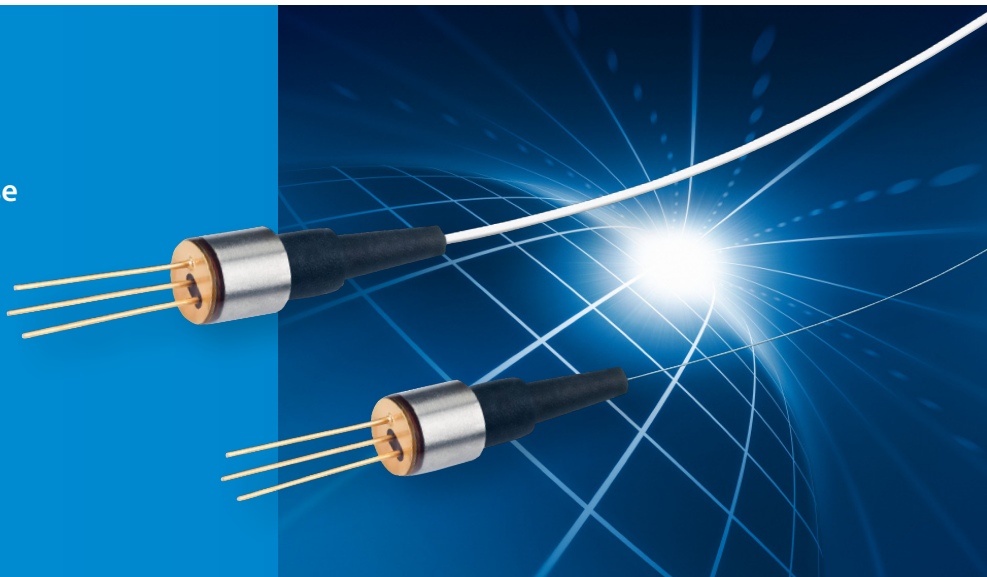


## LAPD 3050 InGaAs APD Module

- InGaAs APD
- Low Dark Current
- High Speed 2.5 GHz
- 1000nm to 1650nm Response
- Miniature Package
- Low Back Reflection
- RoHS Compliant

### • Applications:

OTDR Receiver  
Line Receiver  
Long Haul



The **LAPD 3050** is a 50um InGaAs APD housed in a hermetic 3 pin coaxial package. The APD is coupled to a singlemode fiber pigtail. The low noise, overload tolerant **LAPD 3050 coax APD** makes the devices ideal for OTDRs, line receivers and any other light level detection/ signal transmission application.

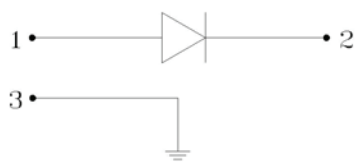
## Specifications and Limits

### Performance @25°C

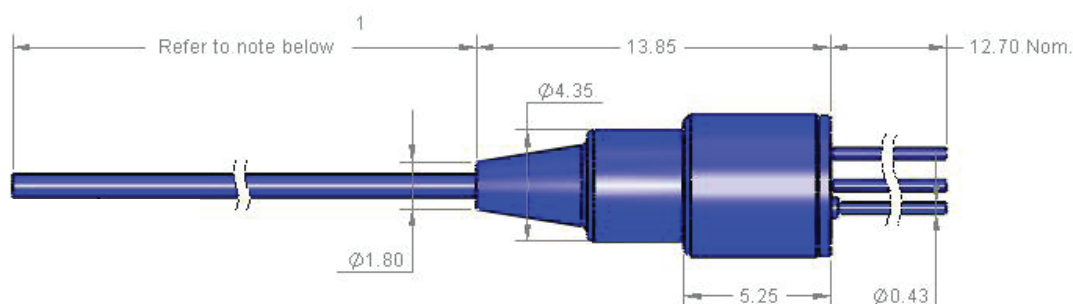
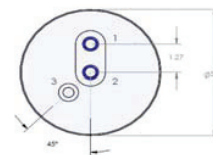
PARAMETERS	SYMBOL	CONDITIONS	Min	Typ	Max	Units
Active Area Diameter	Ø			50		µm
Operational Wavelength	λ		1000	1550	1650	nm
Responsivity	R	λ= 1550nm, M = 10	7	9		A/W
Dark Current	I <sub>d</sub>	M = 10		2		nA
Breakdown Voltage	V <sub>br</sub>	I <sub>d</sub> = 10 uA	50		70	V
Capacitance	C <sub>T</sub>	f = 1 MHz, M> 3		1		pF
Bandwidth	f <sub>3dB</sub>	RL =50Ω, 3 < M < 10		2.5		GHz
Absolute Max Reverse Current	I <sub>r</sub>				2	mA
Optical Return Loss	ORL				-30	dB
Operating Temperature Range	T <sub>op</sub>		-40		85	°C
Storage Temperature	T <sub>stg</sub>	Non operating	-40		85	°C

## Outline Drawing

Electrical schematic



PINOUT TABLE	
PIN No.	Description
1	Anode
2	Cathode
3	Ground



Note 1: Standard fiber length: 1 meter minimum  
 Dimensions: Millimeters  
 Detailed package drawings are available on LDI website.

## Model Number Table

When ordering, refer to the numbering diagram below.

Model#	Fiber Type	Nominal Fiber Size (um)
LAPD 3050-SMR	SMF 28e	9/125/245/900

Products can be ordered directly from OSI Laser Diode, Inc. or its representatives.  
 For a complete listing of representatives, visit our website at  
[www.laserdiode.com](http://www.laserdiode.com)

### Personal Hazard and Handling Precautions:

Handle optical fiber with normal care, avoiding stretch, tension, kink or bend abuse. ESD precautions apply.

### Warranty:

Please refer to your product purchase agreement for complete details or check with your OSI Laser Diode sales representative.

### Notice:

OSI Laser Diode, Inc. reserves the right to make changes to the products or information contained herein without notice.  
 No liability is assumed as a result of their use or application.