OSI LaserDiode, Inc.
An OSI Systems Company

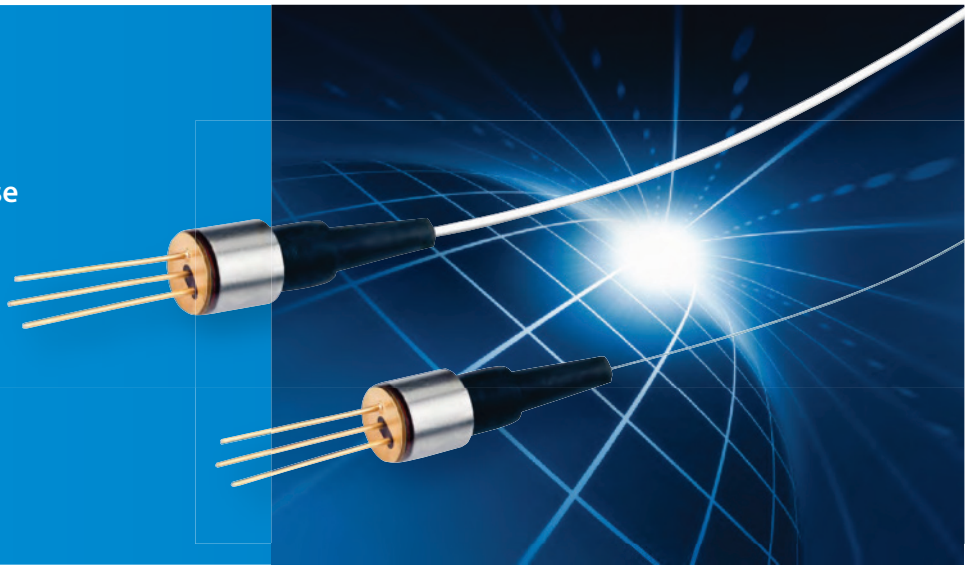
Distributed by IMM Photonics GmbH, Germany
phone: +49 89 321412-0 • sales@imm-photonics.de

ISO 9001:2015 Certified

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_d	M = 10		2		nA
Breakdown Voltage	V^{br}	I_d= 10 uA	50		70	V
Capacitance	C_T	f = 1 MHz, M> 3		1		pF
Bandwidth	f_3dB	RL =50Ω, 3 < M < 10		2.5		GHz
Absolute Max Reverse Current	I^r				2	mA
Optical Return Loss	ORL				-30	dB
Operating Temperature Range	T_{op}		-40		85	˚C
Storage Temperature	T_{stg}	Non operating	-40		85	˚C

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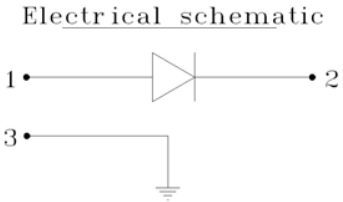
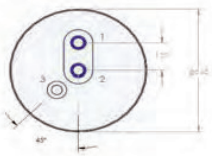
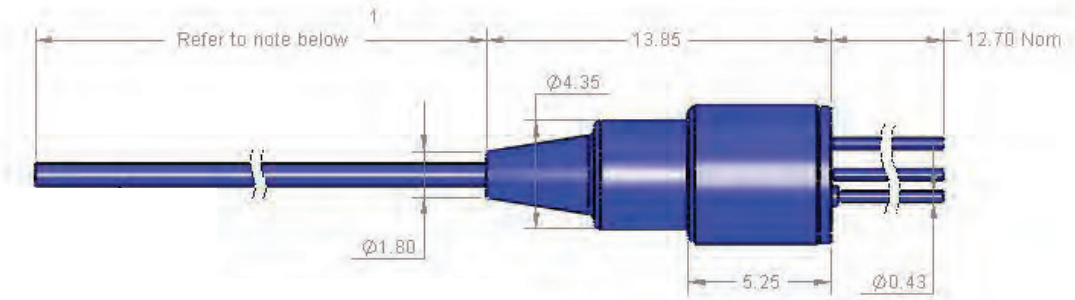
Ohmstrasse 4 · 85716 Unterschleissheim · Germany
sales@imm-photonics.de · www.imm-photonics.de

Outline Drawing

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

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.