OSI LaserDiode, Inc.

An OSI Systems Company

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www.laserdiode.com

ISO-9001:2015 Certified

- InGaAs PIN Photodiode
- Low Dark Current
- High Responsivity
- Low PDL
- Miniature Package
- Low Back Reflection
- RoHS Compliant
- Applications:

DWDM System Monitor EDFA Tap Monitor High Speed Receivers SDH/SONET Receiver





The OSI Laser Diode Inc. InGaAs PIN detector provides both small size and high performance in a miniature coaxial module. Designed to provide high responsivity and low leakage, LDI's detector modules exhibit low back reflection along with low polarization dependent loss (PDL). The detector module offers high reliability satisfying TELCORDIA GR-468-CORE. The LPD 3080 coaxial devices are available with either a 245um or 900um jacketed fiber and are available at two back reflection levels.

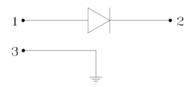
PIN Monitor Specifications (Performance @ 25°C and -5V)

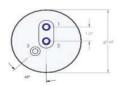
PARAMETERS SYMBOL Min Typ Max Units Detector Diameter Ø 75 μm Dark Current I d 0.05 0.5 nA Capacitance C _j 0.5 0.75 pF Responsivity @ 1.3 um R 0.8 0.85 A/V @ 1.55 um R 0.85 0.9 A/V Optical Back Reflection See Table Below dB PDL 0.15 dB Input Power 10 dBr	
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PDL 0.15 dB Input Power 10 dBr	V
Input Power 10 dBr	3
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Paradicidate (DL 500)	n
Bandwidth (RL = 50Ω) f_3 db 2.5 GH.	Z
Operating Temperature Range T _{op} -40 85 °C	
Storage Temperature T _{stg} -40 85 °C	

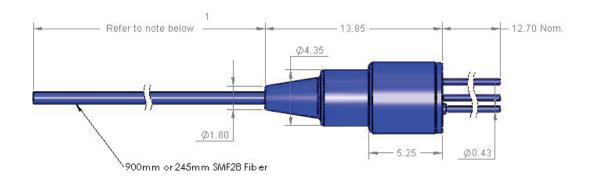
Outline Drawing

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

Electrical schematic







Note 1: Standard fiber length: 1 meter minimum

Dimensions: Millimeters

Detailed package drawings are available on LDI website.

Absolute Maximum Ratings						
Units						
Reverse Voltage	20	V				
Forward Current	10	mA				
Reverse Current	10	mA				

Model Number Table

Some products can be supplied with performance characteristics that will meet special customer requirements and that are different from those indicated herein.

Model#*	Fiber Type	Nominal Fiber Size (um)	Cladding Tolerance	Back Reflection Level (dB)
LPD 3080-PM1	Corning SMF 28-CPC6	9/125/245	125 +/- 1.0um	-40
LPD 3080-PM2	Corning 900um TBII	9/125/245/900	125 +/- 1.0um	-40
LPD 3080-PM3	Corning SMF 28-CPC6	9/125/245	125 +/- 1.0um	-27
LPD 3080-PM4	Corning 900um TBII	9/125/245/900	125 +/- 1.0um	-27

^{*}Adding "F" suffix to any part number specifies a board mount flange. Connector Options available.

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.