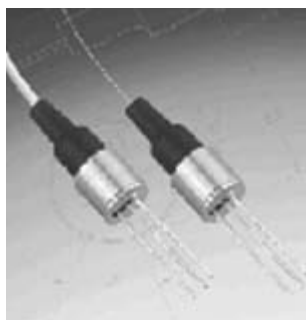


InGaAs PIN Photo Diode Modules for DWDM/EDFA Tap Monitor Applications



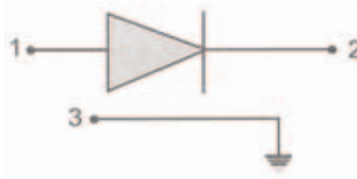
Product Facts

- InGaAs photodiode
- Low dark current
- High responsivity
- Low PDL
- Miniature package
- Low back reflection
- Satisfies Telecordia GR-468-CORE specifications
- RoHS Compliant

Applications

- DWDM system monitor
- EDFA tap monitor
- High speed receivers
- SDH/SONET receiver

Circuit Diagram



Absolute Maximum Ratings

		Units
Forward Voltage	0.5	V
Reverse Voltage	20	V
Forward Current	1	mA
Reverse Current	10	mA

PIN Monitor Specifications (Performance at 25° C and -5Vr)

Parameter	Unit	Min.	Typ.	Max.
Detector Diameter	μm		75	
Dark Current	nA		0.08	0.5
Capacitance	pF		0.5	0.75
Responsivity @ 1.3μm	A/W	0.8	0.85	
@ 1.55μm	A/W	0.85	0.9	
Optical Back Reflection	dB	See Table Below		
PDL	dB			0.15
Input Power	dBm			3
Optical Linearity%				±3
Bandwidth	GHz		2	
Operating Temperature	° C	-40		85
Storage Temperature	° C	-40		85
Package Type	TO-46, Pigtailed			

Ordering Information

Model Number Table

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

*Adding "F" suffix to any part number specifies a board mount flange. **Connector options available.**

For Laser Diode Incorporated technical service, customer support, order information, or to discuss custom device requirements, please contact:
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E-mail: sales@laserdiode.com
Home Page: www.laserdiode.com

Note: Part Numbers are RoHS compliant except: ♦ Indicates non-RoHS compliant.