

PD-LD Inc. offers a variety of packaging options for its DFB Series of laser diodes. These units are available in ready-to-use, fiber-coupled packages, including FC, ST, and SC receptacles, as well as fiber-pigtailed units.

The InGaAsP laser diodes offered by PD-LD are of proven design and manufacture; the standard wavelengths are centered at 1310 and 1550nm. Fiber-coupled CW (continuous-wavelength) output powers range from 0.1 - 2 mW, depending on the fiber type and desired performance level. Tracking error over OTR -40 to +85C is 1.0 dB maximum.

Optional board or panel mount flanges are available for pigtailed devices; contact PD-LD Sales. Also, PD-LD Inc. will package non-standard lasers or parts specified by a customer using standard or custom receptacle or pigtailing techniques. Both receptacle and pigtail packages are made using an active micro-positioning system and laser welding process ensuring a reliable and well constructed product.

PD-LD offers two popular pin-outs for DFB lasers to address various existing PCB layouts.



### Features

- Internal Monitor Photodetector
- Compact, reliable receptacle & coax fiber-coupled package
- 0.1 - 2.0 mW singlemode (9/125)
- 30dB minimum side mode suppression
- 0.2nsec typical rise/fall time

### Performance Specifications

PD-LD Part No. <sup>1</sup>	Wavelength (nm)		Min. Fiber Coupled Power (mW)	Pin-out	Threshold Current (mA)		Operating Current (mA)		Monitor PD Current (mA)	
	Min.	Typ. Max.			Typ.	Max.	Typ.	Max.	Min.	Typ.
Continuous Wavelength InGaAsP Lasers @ 25C										
PL13U001100B-R-0-01	1290	<b>1310</b>	1330	1 mW into 9/125 SMF	"H"	6	20	18	40	InGaAs 0.1 0.8
PL13U0.5FC11-S-0	1290	<b>1310</b>	1330	0.5mW FC Receptacle	"H"	6	20	18	40	InGaAs 0.1 0.8
PL13N0021FAA-0-0-01	1295	<b>1310</b>	1325	2 mW into 9/125 SMF	"T"	10	15	20	35	InGaAs 0.1 0.8
PL15M0011SCA-0-0-01	1530	<b>1550</b>	1570	1 mW into 9/125 SMF	"H"	10	30	30	60	InGaAs 0.1 0.8
PL15M0.51SCC-R-0-01	1530	<b>1550</b>	1570	0.5 mW into 9/125 SMF	"H"	15	30	30	45	InGaAs 0.1 0.8
PL15N001FCG-R-0-01	1530	<b>1550</b>	1570	1 mW into 9/125 SMF	"T"	10	15	20	30	InGaAs 0.1 0.8
PL15N002FC0-0-0-01	1530	<b>1550</b>	1570	2 mW into 9/125 SMF	"T"	10	15	20	30	InGaAs 0.1 0.8

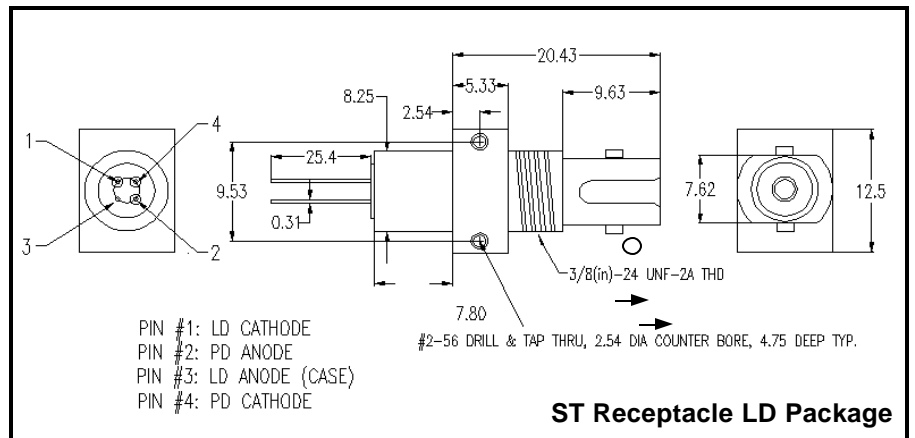
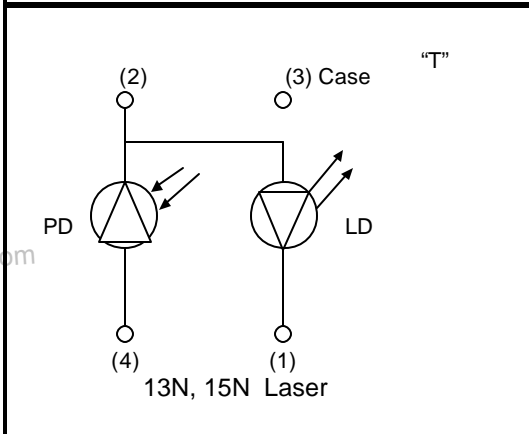
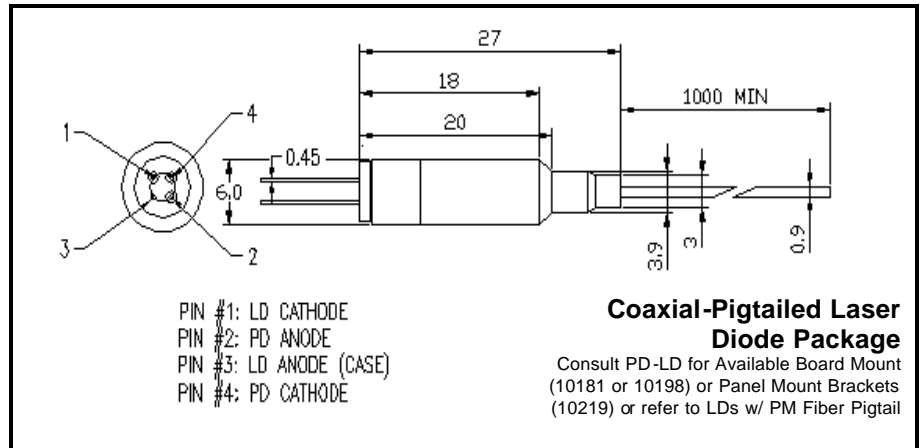
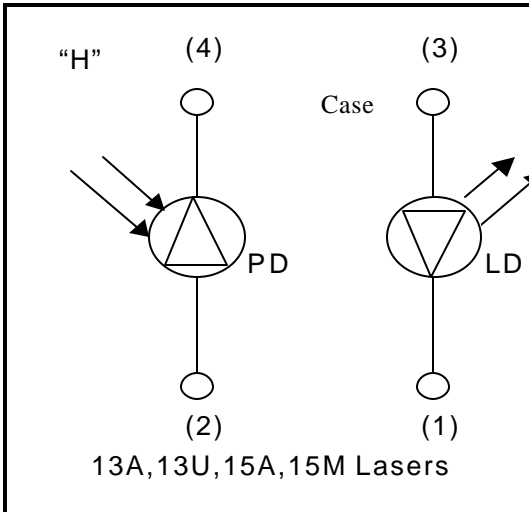
<sup>1</sup> Examples only; most device/packaging combinations available.

Changes to specifications may be made without notice.

03-02PL13/15DFB. Rev.2

# PLD L13/15DFB- Series Laser Diodes for Fiber Optics

## Physical Dimensions (mm) & Pin Connection



## Ordering Information

### Lasers - Pigtails & Receptacle

## PLWWWPPPFCCB-0-V-LL

**L = Laser**

**WWW=Wavelength and Pin-out**

1310nm

1550nm

**PPP = Fiber-Coupled Power**

0.1 = 0.10 mW (100  $\mu$ W)

0.8 = 0.8 mW (800  $\mu$ W)

0.2 = 0.20 mW (200  $\mu$ W)

001 = 1.0 mW

0.5 = 0.5 mW (500  $\mu$ W)

002 = 2.0 mW

**F = Fiber Type**

1 = 9/125 SMF

2 = 50/125 MMF

3 = 62.5/125 MMF

4 = 100/140 MMF

9 = Customer Supplied

**B = Bracket Type**

A = None

B = Panel Mount

C = Board Mount

**O=Orientation**

0=None

A=Bracket Shipped Loose (pigtails units only)

Specify orientation as required

**V=Version**

0=Standard Specifications

**LL = Length in meters** (01,02,0.5 etc.) (pigtails devices only)

**CC = Connector Type** (pigtails devices only)

ST = ST/PC

SC = SCPC

SA=SC/APC

FC = FC/PC

FA = FC/APC

FU = FC/UPC

OO = No