

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 pigtail 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. Typ. Max.	Min. Fiber Coupled Power (mW)	Pin-out	Threshold Current (mA) Typ. Max.	Operating Current (mA) Typ. Max.	Monitor PD Current (mA) 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

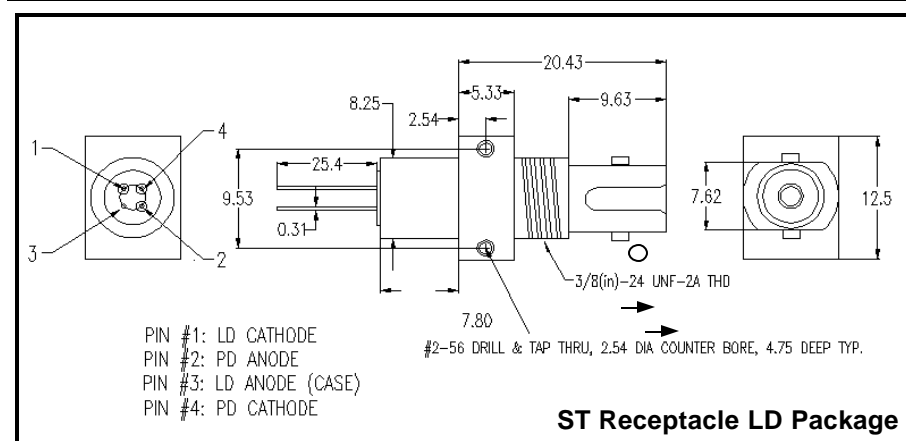
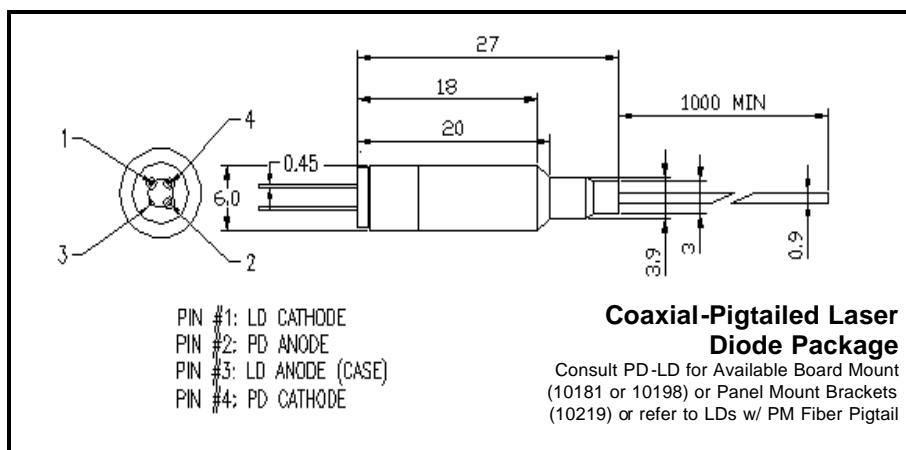
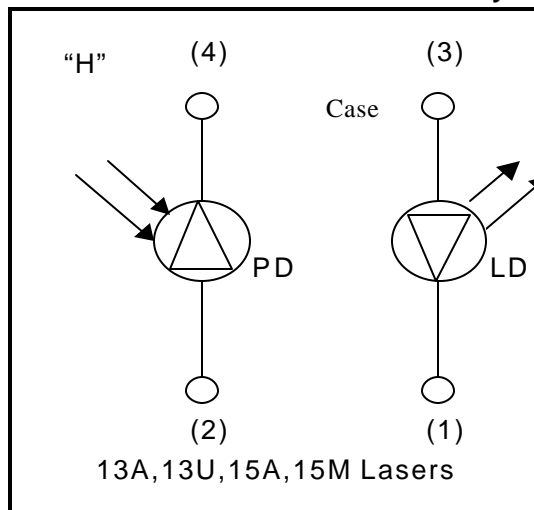
<sup>1</sup> Examples only; most device/packaging combinations available.

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 - Pigtailed & Receptacle

**PLWWPPPFCCB-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 (pigtailed units only)

Specify orientation as required

**V=Version**

0=Standard Specifications

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

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

**ST = ST/PC**

**SC = SCPC**

**SA=SC/APC**

**FC = FC/PC**

**FA = FC/APC**

**FU = FC/UPC**

**OO = No**