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 - 2.0 mW, depending on the fiber type and desired performance level. Tracking error over OTR -40 to +85°C 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 proven packaging techniques. Reliable and efficient devices are produced.

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

### 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

<table>
<thead>
<tr>
<th>PD-LD Part No.</th>
<th>Wavelength (nm)</th>
<th>Min. Fiber Coupled Power (mW)</th>
<th>Pin-out</th>
<th>Threshold Current (mA)</th>
<th>Operating Current (mA)</th>
<th>Monitor PD Current (mA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>PL13U0021FAE-Q-1-01</td>
<td>1290</td>
<td>1310</td>
<td>1330</td>
<td>2 mW</td>
<td>into 9/125 SMF</td>
<td>&quot;H&quot;</td>
</tr>
<tr>
<td>PL13U0.5FC11-S-0</td>
<td>1290</td>
<td>1310</td>
<td>1330</td>
<td>0.5mW</td>
<td>FC Receptacle</td>
<td>&quot;H&quot;</td>
</tr>
<tr>
<td>PL13N0021FAA-0-0-01</td>
<td>1295</td>
<td>1310</td>
<td>1325</td>
<td>2 mW</td>
<td>into 9/125 SMF</td>
<td>&quot;T&quot;</td>
</tr>
<tr>
<td>PL15A0011SCA-0-0-01</td>
<td>1530</td>
<td>1550</td>
<td>1570</td>
<td>1 mW</td>
<td>into 9/125 SMF</td>
<td>&quot;H&quot;</td>
</tr>
<tr>
<td>PL15A0.51FCG-A-0-.5</td>
<td>1530</td>
<td>1550</td>
<td>1570</td>
<td>0.5 mW</td>
<td>into 9/125 SMF</td>
<td>&quot;H&quot;</td>
</tr>
<tr>
<td>PL15N001T00A-0-0-01</td>
<td>1530</td>
<td>1550</td>
<td>1570</td>
<td>1 mW</td>
<td>Into PM fiber</td>
<td>&quot;T&quot;</td>
</tr>
<tr>
<td>PL15N002FC0-0-0-01</td>
<td>1530</td>
<td>1550</td>
<td>1570</td>
<td>2 mW</td>
<td>into 9/125 SMF</td>
<td>&quot;T&quot;</td>
</tr>
</tbody>
</table>

1. Examples only; most device/packaging combinations available. Changes to specifications may be made without notice.

30-B Pennington-Hopewell Rd., Pennington NJ 08534 FON: 609-564-7900 FAX: 609-564-7901 EMAIL: info@pd-
**PLD L13/15DFB - Series**  
Laser Diodes for Fiber Optics

### Physical Dimensions (mm) & Pin Connection

- **“H”**
  - (1) Case
  - (2) LD
  - (3) PD
  - (4) 13A, 13U, 15A, 15M Lasers

- **“T”**
  - (1) LD
  - (2) PD
  - (3) Case
  - (4) 13N, 15N Laser

### Coaxial-Pigtailed Laser Diode Package
Consult PD-LD for Available Board Mount (10181 or 10198) or Panel Mount Brackets (10219) or refer to LDs w/ PM Fiber Pigtail

### ST Receptacle LD Package

### Ordering Information

**Lasers - Pigtailed & 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)
  - 0.2 \(=\) 0.20 mW (200 \(\mu\)W)
  - 0.5 \(=\) 0.5 mW (500 \(\mu\)W)
  - 0.8 \(=\) 0.8 mW (800 \(\mu\)W)
  - 1 \(=\) 1.0 mW
  - 001 \(=\) 1.0 mW
  - 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 18mm hole spacing
  - C = Board Mount
  - E = Panel Mount 12mm hole spacing

- **O** = Bracket Orientation
  - 0 = None
  - A = Bracket Shipped Loose
  - Q = Case Ground at 3:00

- **V** = Version
  - 0 = Standard
  - 1 = Optical Isolator

- **S** = 1310nm Polarization Maintaining Fiber, Panda type 9.5/125/900
- **T** = 1550nm Polarization Maintaining Fiber, Panda type 10.5/125/900

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

- **ST** = ST/PC
  - **SC** = SC/PC
  - **SA** = SC/APC
  - **FA** = FC/APC
  - **FU** = FC/UPC
  - **OO** = None

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ST is a registered trademark of AT&T

07-03PL13/15DFB.Rev.A

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