PL13/15 DFB Series Laser Diode Modules

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 feature standard wavelengths 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 +85°C is 1.0 dB maximum.

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

Applications
- Fiber optic communications systems
- Fiber optic test instrumentation
- Analog signal transmission

### PL13/15 DFB Series Laser Diode Modules

<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><strong>1310</strong></td>
<td>1330</td>
<td><strong>2 mW</strong></td>
<td>into 9/125 SMF</td>
<td>“H”</td>
</tr>
<tr>
<td>PL13U0.5FC11-S-0</td>
<td>1290</td>
<td><strong>1310</strong></td>
<td>1330</td>
<td><strong>0.5mW</strong></td>
<td>FC Receptacle</td>
<td>“H”</td>
</tr>
<tr>
<td>PL13N0021FAA-0-0-01</td>
<td>1295</td>
<td><strong>1310</strong></td>
<td>1325</td>
<td><strong>2 mW</strong></td>
<td>into 9/125 SMF</td>
<td>“T”</td>
</tr>
<tr>
<td>PL15M0011SCA-0-0-01</td>
<td>1530</td>
<td><strong>1550</strong></td>
<td>1570</td>
<td><strong>1 mW</strong></td>
<td>into 9/125 SMF</td>
<td>“H”</td>
</tr>
<tr>
<td>PL15M0.51SCC-R-0-01</td>
<td>1530</td>
<td><strong>1550</strong></td>
<td>1570</td>
<td><strong>0.5 mW</strong></td>
<td>into 9/125 SMF</td>
<td>“H”</td>
</tr>
<tr>
<td>PL15N001T00A-0-0-01</td>
<td>1530</td>
<td><strong>1550</strong></td>
<td>1570</td>
<td><strong>1 mW</strong></td>
<td>into PM fiber</td>
<td>“T”</td>
</tr>
<tr>
<td>PL15N002FC0-0-0-01</td>
<td>1530</td>
<td><strong>1550</strong></td>
<td>1570</td>
<td><strong>2 mW</strong></td>
<td>into 9/125 SMF</td>
<td>“T”</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-ld.
PL13/15 DFB Series Laser Diode Modules

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

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-ld.
PL13/15 DFB Series Laser Diode Modules

Ordering Information

Data Legend: **Pigtailed** Laser Diodes

```
PL WWW PPP F CC B-O-V-LL
```

**L** = Laser

**WWW** = Wavelength & Device Type
- 13B, 13P, 13AM = 1310nm
- 15B, 15P = 1550nm

**PPP** = Fiber-Coupled Power
- 0.1 = 0.10mW (100µW)
- 0.2 = 0.20mW (200µW)
- 0.5 = 0.50mW (500µW)
- 001 = 1.0mW
- 1.6 = 1.6mW
- 002 = 2.0mW

**F** = Fiber Type
- 1 = 9/125 SMF
- 2 = 50/125 MMF
- 3 = 62.5/125 MMF
- 4 = 100/140 MMF
- 9 = Customer Supplied

**CC** = Connector Type
- ST = ST/PC
- SC = SC/PC
- SA = SC/APC
- FC = FC/PC
- FA = FC/APC
- FU = FC/UPC
- 00 = No Connector

**B** = Bracket Type
- A = None
- B = Panel Mount
- C = Board Mount
- G = Board Mount (bracket shipped loose)

**O** = Orientation
- 0 = N/A
- A = Bracket Shipped Loose

**V** = Version
- 0 = Standard

**LL** = Length (in meters)
- 01 = 1m
- 02 = 2m
- .5 = .5m etc.

---

Data Legend: **Receptacle** Laser Diodes

Ex:  

```
PL WWW PPP RRR F-O-V
```

**L** = Laser

**WWW** = Wavelength & Device Type
- 13B, 13P, 13AM = 1310nm
- 15B, 15P = 1550nm

**PPP** = Fiber-Coupled Power
- 0.1 = 0.10mW (100µW)
- 0.2 = 0.20mW (200µW)
- 0.5 = 0.50mW (500µW)
- 001 = 1.0mW
- 1.6 = 1.6mW
- 002 = 2.0mW

**RRR** = Receptacle Type
- FC1 = FC Panel Mount
- FC2 = FC Board Mount
- SC1 = SC Panel Mount only
- SC2 = SC Panel/Board Mount
- ST7 = ST low profile
- ST8 = ST high profile

**F** = Fiber Type
- 1 = 9/125 SMF
- 2 = 50/125 MMF
- 3 = 62.5/125 MMF
- 4 = 100/140 MMF
- 9 = Customer Supplied

**CC** = Connector Type
- ST = ST/PC
- SC = SC/PC
- SA = SC/APC
- FC = FC/PC
- FA = FC/APC
- FU = FC/UPC
- 00 = No Connector

**O** = Orientation
- 0 = N/A

**V** = Version
- 0 = Standard

**LL** = Length (in meters)
- 01 = 1m
- 02 = 2m
- .5 = .5m etc.

---

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-ld.com