PD-LD Inc. offers a variety of standard Surface Emitting LED’s (SLEDs) in ready to use fiber coupled packages. Packaging options include Receptacle style housings such as ST, FC and SC as well as fiber pigtailed coaxial assemblies. SLEDs are typically used with multi-mode optical fiber and may be specified for coupling to 50um, 62.5um or 100um core optical fibers. Units built with fiber pigtailed are available terminated with optical connectors. Specialty fiber sizes may be available upon request.

The SLED product offering includes both 850nm and 1310nm devices. These units produce broad spectrum, incoherent light and have wide spectral widths. Such SLED’s may be modulated from DC to 150 MHz or operated in continuous wave mode.

These devices may be operated in both analog or digital applications. It is typical to drive the SLED’s with up to 100mA forward current. Such devices do not require internal monitor photodiodes which simplifies drive circuit designs. The robust nature of these units allow for operation

### Features 850nm SLEDs
- High reliability GaAlAs Diode
- Compact, robust receptacle & coax fiber-coupled package
- 5 to 30 uW into MMF

### Features 1310nm SLEDs
- InGaAs Diodes systems
- Wide Spectral Width, 160nm
- Ideal for Networking Applications
- DC to 200MHz operation

<table>
<thead>
<tr>
<th>PD-LD Part Number</th>
<th>Wavelength Typ. (nm)</th>
<th>Operating Current (mA) Typ. Max</th>
<th>Fiber Type Core/Cladding (um)</th>
<th>Fiber Coupled Power (uW) Min Max</th>
<th>Pin-Out</th>
<th>Spectral Width FWHM (nm)</th>
<th>Rise/ Fall Time Max. (nsec)</th>
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</thead>
<tbody>
<tr>
<td><strong>850nm GaAlAs SLED (Iop=100mA @ 25C, 1.8V)</strong></td>
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<tr>
<td>PS85K020SC22-Q-0</td>
<td>850</td>
<td>100 110</td>
<td>50/125</td>
<td>20 25</td>
<td>D</td>
<td>35</td>
<td>6.0</td>
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<tr>
<td>PS85K020FC22-Q-0</td>
<td>850</td>
<td>100 110</td>
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<td>35</td>
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<tr>
<td>PS85K020ST72-Q-0</td>
<td>850</td>
<td>100 110</td>
<td>50/125</td>
<td>20 25</td>
<td>D</td>
<td>35</td>
<td>6.0</td>
</tr>
<tr>
<td><strong>1310nm InGaAs SLED (Iop=100mA @25 C, 1.8V)</strong></td>
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<tr>
<td>PS13L030300A-0-0-01</td>
<td>1310</td>
<td>100 110</td>
<td>62.5/125</td>
<td>30 35</td>
<td>D</td>
<td>160</td>
<td>3.0</td>
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<tr>
<td>PS13L020FC22-Q-0</td>
<td>1310</td>
<td>100 110</td>
<td>50/125</td>
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<td>D</td>
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<td>100 110</td>
<td>50/125</td>
<td>20 25</td>
<td>D</td>
<td>160</td>
<td>3.0</td>
</tr>
</tbody>
</table>

Examples only; most device/packaging combinations available. Changes to specifications may be made without notice. 11-12 PS Series.Rev C
## Ordering Information

### Pigtailed Devices

**Order Code:** PXWWWWWWFPCCB-0-V-LL  
**Note:** X = S for SLED

- **WWW:** Wavelength and Pin-out  
- **S85K:** 850nm SLED  
- **S13L, S13T:** 1300nm SLED

### Receptacle Devices

**Order Code:** PXWWWPPPFRRRF-O-V

- **PPP:** Fiber-Coupled Power
  - 005 = 5μW  
  - 015 = 15μW  
  - 010 = 10μW  
  - 030 = 30μW  
  - 008 = 8μW  
  - 020 = 20μW  
  - 0.1 = 0.1mW  
  - 0.5 = 0.5mW

### Details

- **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

- **RRR** = Receptacle Type  
  - FC1=FC Panel mount  
  - FC2=FC Board mount  
  - SC1=SC Panel mount only  
  - SC2=SCPanel/board mount  
  - ST7=ST low profile(7.9mm)  
  - ST8=ST high profile(10.4mm)

- **O** = Orientation  
  - 0 = N/A  
  - 0 = Bracket Shipped Loose (pigtailed unit)  
  - Specify orientation as required

- **V** = Version  
  - 0 = Standard  
  - Unique Codes for specific requirements

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

- **ST** = ST/PC  
  - SC = SCPC  
  - SA = SC/APC  
  - FC = FC/PC  
  - FA = FC/APC  
  - FU = FC/UPC  
  - OO = No Connector

---

1. Examples only; most device/packaging combinations available.  
2. 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-ltd.com www.pd-ltd.com
Mechanical Dimensions for Receptacle Packages

ST Receptacle Height
Low Profile 7.9mm
High Profile 10.4mm
SC Board Mount Receptacle
“Q” Lead Orientation

NOTES:

1. THESE DEVICES ARE ESD SENSITIVE. ESD PRECAUTIONS ARE ADVISED.

2. ALL DEVICES ARE SHIPPED WITH THE SD LEAD PROTECTORS AND DUST COVERS.

3. ALL DEVICES WILL BE MARKED WITH A PD-LD SERIAL NUMBER.

- PLASTIC, BLUE
- BRASS, NICKEL PLATED

Details:

- 2.45 mm Ø
- 22.0 mm
- 9.4 mm
- 12.7 mm
- 12 ± 1
- 19.2 mm
- 4.1 mm
- 3.1 mm

Examples only; most device/packaging combinations available. Changes to specifications may be made without notice.
PS Series 850 nm and 1300 nm Surface Emitting LEDs

ST Board Mount Receptacle
Low Profile with "W" Lead Orientation

NOTES:

1. THESE DEVICES ARE ESD SENSITIVE. ESD PRECAUTIONS ARE ADVISED.

2. ALL DEVICES ARE SHIPPED WITH ESD LEAD PROTECTORS AND DUST COVERS.

3. ALL DEVICES WILL BE MARKED WITH A PD-LD SERIAL NUMBER.

**ZINC DÉ CCAST**
**NICKEL PLATED**

Dimensions in millimeters:
- 3/8-24 UNC-2A
- 2-56 UNC-2B THRU
- 3.9
- 0.6
- 2.45
- 12.7
- 8.0
- 12 ± 1
- 6.3 ± 0.75

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ST Board Mount Receptacle
Low Profile with “W” Lead Orientation

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

11-12 PS Series.Rev C

30-B Pennington-Hopewell Rd., Pennington NJ 08534 FON: 609-564-7900 FAX: 609-564-7901 EMAIL: info@pd-ld.com www.pd-ld.com
FC Board Mount Receptacle Housing

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

11-12 PS Series.Rev C