PD-LD Inc. offers 1300nm and 1550nm Edge Emitting LEDs, ELEDs, in ready-to-use fiber coupled packages, including FC, ST and SC receptacles as well as fiber-pigtailed units. These ELED devices have been packaged for optimal coupling into 9/125um optical fiber for use in singlemode fiber optic applications. The semiconductors inherently fast rise and fall time make them ideal for high bandwidth applications. The wide optical spectrum, 60nm FWHM is the ideal non-coherent light source for many noise sensitive applications.

The InGaAsP ELED’s offered by PD-LD are of proven design and manufacture. The 1300nm units are backward compatible with those applications previously using devices offered by Agilent (HP), OKI and JDSUniphase. The 1310 nm units typically couple 8 to 10uW into SMF while 1550nm can couple 40uW typical.

All PD-LD ELED’s incorporate a hermetically sealed semiconductor mounted in a TO can sub-assembly. These subassemblies are micro-positioned to various lens assemblies depending upon the package style and desired coupling efficiency. Fiber pigtailed devices are available with Performance Specifications

<table>
<thead>
<tr>
<th>PD-LD Part No.</th>
<th>Fiber Coupled Power (uW) Min. Typ.</th>
<th>Package Style</th>
<th>Mounting Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>PE13W0051FCA-0-0-01</td>
<td>5 8</td>
<td>Pigtailed FC/PC Connector</td>
<td>Co-Axial Bracket available</td>
</tr>
<tr>
<td>PE13W010ST71-Q-0</td>
<td>10 15</td>
<td>Receptacle ST Style</td>
<td>PC Board Mountable</td>
</tr>
<tr>
<td>PE15E0251FCA-0-0-01</td>
<td>25 50</td>
<td>Pigtailed FC/PC connector</td>
<td>Co-axial Bracket Available</td>
</tr>
<tr>
<td>PE15E040FC21-N-0</td>
<td>40 50</td>
<td>Receptacle FC Style</td>
<td>Board Mountable</td>
</tr>
<tr>
<td>PE15E0501FCA-0-0-01</td>
<td>50 75</td>
<td>Pigtailed FC/PC Connector</td>
<td>Co-Axial Bracket Available</td>
</tr>
</tbody>
</table>

**Features**
- High reliability InGaAsP Diode
- Compact, robust receptacle & coax fiber-coupled package

**Applications**
- Fiberoptic communications systems
- Analog Transmission
- Ethernet Networking

**Typical ELED Characteristics**

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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
PE13W15E Series  ELEDs for Fiber Optics

Physical Dimensions (mm)
A press-fit panel mount is available, see ordering information.

ELED ANODE (->)
LED CATHODE (<-)

CASE GROUND

Pin Assignment

(1) Cathode
(2) Anode
(3) Case

1310  ELED Pinout

FC Receptacle

SC Receptacle

ST Receptacle

Changes to specifications may be made without notice.

1-03 PELED Series: Rev.A

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
1550nm ELED Pin-Out and Receptacle Rotation Options

N Rotation

P Rotation

S Rotation

V Rotation