The CEFA-L-PB-HP series are Erbium Fiber Amplifiers designed for single channel amplification in the L-Band.

These amplifiers can deliver a saturated output power up to 33 dBm. They include a Pre Amplifier stage which allows them to be seeded with low input power (down to -20 dBm). They offer a very low noise figure and a high optical signal to noise ratio (OSNR) at the output.

Their unique optical design allows the amplification of narrow linewidth sources. The series includes polarization maintaining models.

The CEFA-L-PB-HP are available in benchtop or compact OEM module. The benchtop platform offers the possibility to control the amplifier via the front panel or remotely via serial USB and Ethernet ports. Both models offer robustness and reliability.

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**Key features**

- Up to 33 dBm of saturated output power
- Low noise figure
- Preamplifier built-in for low input power
- Narrow linewidth amplification
- Polarization-maintaining (optional)
- Benchtop or OEM module versions available
- Low power consumption
- High reliability

**What applications**

- Optical transmission network
- Free space communication
- Remote sensing (LIDAR)
- Test and measurement
- Scientific
- Optical component testing

For ordering information and custom solutions, please contact us: websales@keopsys.com
CEFA-L-PB-HP
CW ERBIUM FIBER AMPLIFIER L-BAND HIGH POWER

Optical Specifications
@ 25 °C

<table>
<thead>
<tr>
<th>Mode of operation</th>
<th>CW</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polarization</td>
<td>Random (SM) or linear (PM with PER&gt;17 dB)</td>
</tr>
<tr>
<td>Output power (-6 dBm input)</td>
<td>25 dBm</td>
</tr>
<tr>
<td>Wavelength range</td>
<td>1565-1605 nm</td>
</tr>
<tr>
<td>Input power range</td>
<td>-20 to +0 dBm</td>
</tr>
<tr>
<td>Noise figure (-6 dBm, 1595 nm input)</td>
<td>&lt;6 dB for SM</td>
</tr>
<tr>
<td>Control mode</td>
<td>ACC, APC</td>
</tr>
<tr>
<td>APC Tunability</td>
<td>10 to 100 %</td>
</tr>
<tr>
<td>Optical port fiber type</td>
<td>SMF28 or PANDA</td>
</tr>
<tr>
<td>Input / output termination</td>
<td>FC/APC, SC/APC, FC/SPC, SC/SPC</td>
</tr>
</tbody>
</table>

The CEFA-L-PB-HP series amplifiers are available as benchtop or as OEM module.

--- RELIABILITY ---

The Lumibird range of fiber amplifiers are manufactured with tested components and are submitted to several inspections during the manufacturing process under a rigorous quality management certified in accordance with the ISO 9001:2015 standard. Our all-in-fiber systems offer maintenance-free operation. Countless units are continuously running in demanding environments with no failure.

--- GUARANTEE ---

Our fiber systems are under 1 full year parts and labor warranty. We offer a warranty extension of 1 or 2 years. Please contact us.

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Lumibird undertakes a continuous and intensive product development program to ensure that its products perform to then highest technical standards. As a result, the specifications in this document are subject to change without notice.

Lumibird has locations across the globe that are available to provide support for any product, service or inquiry. Visit www.lumibird.com to connect with any of our global sites.

V1.0