

CEFA-L-PB-HP

CW ERBIUM FIBER AMPLIFIER L-BAND HIGH POWER



1.5 μm

B 130

M 301



Up to 33 dBm of saturated output power,
Low noise figure,...

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.

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

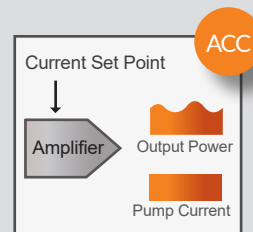
What applications

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

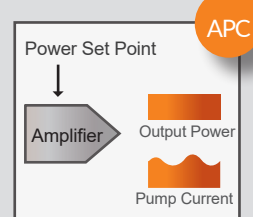


Modes of operation

The devices offer several modes of operation :



ACC (Automatic Current Control) mode is standard for all devices. The amplifier is controlled from diodes current set point.



APC (Automatic Power Control) mode allows controlling the amplifier at a fixed output power set point. The device maintains a constant optical output power monitored with a photodiode. The current is adjusted automatically.

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Optical Specifications

@ 25 °C

CEFA-L-PB-HP

Optical Specifications		CEFA-L-PB-HP			
Mode of operation	CW				
Polarization	Random (SM) or linear (PM with PER>17 dB)				
Output power (-6 dBm input)	25 dBm	27 dBm	30 dBm	33 dBm	
Wavelength range	1565-1605 nm				
Input power range	-20 to +0 dBm				
Noise figure (-6 dBm, 1595 nm input)	<6 dB for SM <7 dB for PM	<6.5 dB for SM <7.5 dB for PM	<7 dB for SM <8 dB for PM		
Control mode	ACC, APC				
APC Tunability	10 to 100 %				
Optical port fiber type	SMF28 or PANDA				
Input / output termination	FC/APC, SC/APC, FC/SPC, SC/SPC				

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

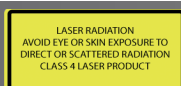
RELIABILITY

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.

For ordering information and custom solutions, please contact us : websales@keopsys.com



Lumibird undertakes a continuous and intensive product development program to ensure that its products perform to the 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.

