

CEFA-C-PB-LP

CW ERBIUM FIBER AMPLIFIER C-BAND LOW POWER



1.5 μm

B 130

M 201

M 160



Up to 23 dBm of saturated output power,
Low noise figure,
...

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

These amplifiers can deliver a saturated output power up to 23 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.

The series include polarization maintaining models. A mid stage access option is also available for adding a fiber component like a DCM module.

The CEFA-C-PB-LP are available in benchtops or compact OEM modules. The benchtop platforms offer 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 23 dBm of saturated output power
- Low noise figure
- Low power consumption
- Benchtop or OEM module versions available
- Polarization-maintaining (optional)
- Mid-stage access (optional)
- Wide range operating temperature (-20 °C to +65 °C for modules)

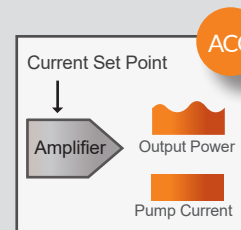
What applications

- Test and measurement
- Lidar
- Microwave optics
- Nanotechnology
- Optical transmission networks
- FTTH / CATV

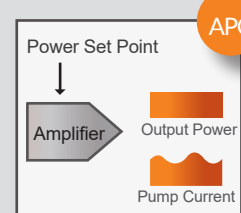


Modes of operation

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-C-PB-LP			
Mode of operation	CW			
Polarization	Random (SM) or linear (PM with PER>20 dB)			
Output power (-6 dBm input)	15 dBm	18 dBm	21 dBm	23 dBm
Wavelength range	1529-1562 nm			
Input power range	-20 dBm to 0 dBm			
Noise figure (-6 dBm, 1550 nm input)	< 5 dB for SM, < 5.5 dB for PM			
Control mode	ACC, APC			
APC Tunability	10 to 100 %		30 to 100 %	
10 dB loss mid-stage access (optional)	Non applicable	Option		
Input / Output termination	FC/APC, SC/APC, FC/SPC, SC/SPC			

The CEFA-C-PB-LP is available as turn-key benchtop or as OEM module.

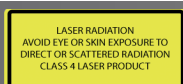
RELIABILITY

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 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.

