

# CEFA-C-PB-LP SERIES

## 1.5 μm CW ERBIUM FIBER AMPLIFIER C-Band Low Power

### Key Features

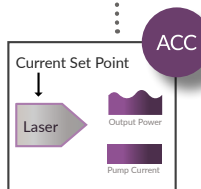
- Output Power up to +23dBm
- Low noise figure
- Polarization maintaining option
- Mid Stage Access Option
- ACC, APC and AGC modes
- Low Power Consumption
- Compact Form Factor Modules or highly sophisticated rack.

### Applications

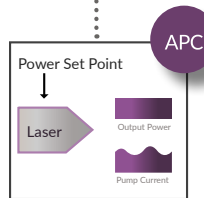
- Long Haul and Metro Networks
- CATV/FTTH Network
- Free space communication
- Test and Measurement

### Modes of operation

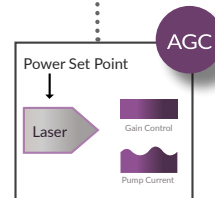
The devices offer several modes of operation :



ACC (Automatic Current Control) mode is standard for all devices. The pump lasers are maintained constant for this mode.



APC : (Automatic Power Control) mode allows to control the amplifier at a fixed output power per port. The device maintains constant the optical output power monitored with a photodiode. The pump currents are adjusted automatically.



AGC : (Automatic Gain Control) mode allows to control the amplifier at a fixed gain. The device maintains constant the gain using input and output monitoring photodiodes. The pump currents are adjusted automatically. This mode includes ASE (Amplified Spontaneous Emission) compensation.

Non contractual photos

### SUB-SYSTEMS CONTINUOUS FIBER AMPLIFIERS

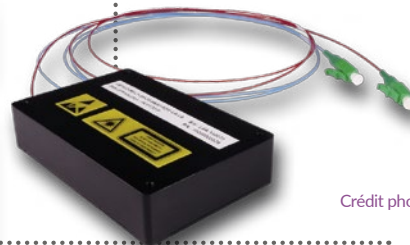


The CEFA-C-PB-LP series amplifiers provide amplification over the C-Band and deliver saturated output power up to +23 dBm.

It can be optimized to perform as a booster, in-line and pre-amplifier in single channel systems and subsystems for metro and long haul applications. It operates in constant gain, constant power or constant current mode. The gain block contains input and output monitor diodes and isolators.

A RS232 communication port permits the user to configure the product and to monitor parameters and alarms. Units in rack platforms include a SNMP supervision with an embedded web server.

### 8 Platforms



- S100
- S200
- S300
- S403
- B130
- K111
- K121
- K131

Crédit photo plateforme S200 : Wyecs Prod

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### ELECTRO-OPTICAL CHARACTERISTICS

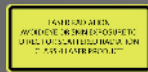
SPECIFICATIONS	CEFA-C-PB-LP
Mode of operation	CW
Wavelength range	1529 – 1562 nm*
Input power range	From -30 to +10 dBm
Output power	From 8 to 23 dBm
Polarization	Random or linear
Operating modes	ACC, APC, AGC
Optical input & output termination	SC/xPC, FC/xPC, LC/xPC

### RELIABILITY

The Lea Photonics 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 9001:2008 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 guarantee. We offer a warranty extension of 1 or 2 years. Please contact us.



LEA Photonics 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.