CEFA-C-WDM-LP Erbium doped fiber amplifiers provide amplification of multiple channels in the C-band, up to 23 dBm of saturated output power.

These amplifiers are optimized for use in Dense Wavelength Division Multiplexing applications. They provide dynamic gain control to operate at the point of optimum gain flatness. Composite output power varies in order to maintain a constant per-channel gain over a dynamic range of 12 dB.

A selection of 2 different bandwidths in the C-Band is available with excellent gain flatness. The series include polarization-maintaining models and mid-stage access option.

These products are proposed in turnkey benchtop instruments or in OEM modules.

**Key features**
- Up to 23 dBm of saturated output power
- Up to 39 nm of gain bandwidth
- Selection of 2 different bandwidths
- Gain flattened at +/-0.5 dB typical
- Low noise figure
- Mid-stage access option
- Polarization-maintaining (optional)
- Low power consumption
- Choice between turnkey benchtop or OEM module
- Wide range operating temperature (-20 °C to +65 °C for modules)

**What applications**
- Regional and metro DWDM networks
- FTTH/CATV networks
- 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 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.
- **AGC (Automatic Gain Control)** mode allows to control the amplifier at a fixed gain set point. The pump current is adjusted automatically to maintain the gain constant.

For ordering information and custom solutions, please contact us: websales@keopsys.com
The CEFA-C-WDM-LP series amplifiers are available as benchtop or as OEM module.

### RELIABILITY

The Lumibird range of fiber lasers 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.