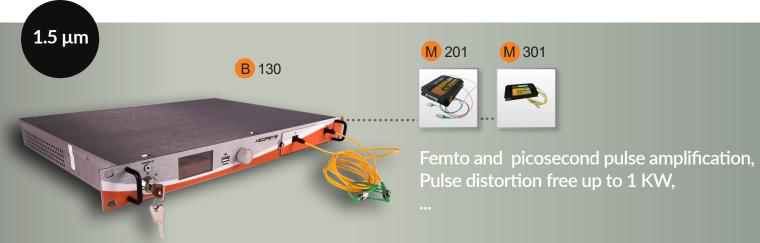
PEFA-SP-C

PULSED ERBIUM FIBER AMPLIFIER 1.5 µm SHORT PULSE FIBER AMPLIFIER





The PEFA-SP-C series is a range of $1.5\mu m$ pulsed fiber amplifiers specially designed to amplify femtosecond and picosecond sources up to 1kW without pulse distortion. The all-in-fiber designs offer an amplification with a low noise figure, a very low dispersion and a high gain over the C-band from 1535nm to 1565nm. Solutions are available with an average power up to 33dBm and with standard or polarization maintaining fiber.

The PEFA-SP-C amplifiers are commonly used for applications such as high peak power generation, non-linear optics, high speed transmission systems and supercontinuum generation.

The PEFA-SP-C series is proposed in turn-key easy 1U rack with a user-friendly front panel, a RS232 communication through a USB connector and Webpages/Telnet/SSH/SNMP2 through a RJ45 connector. OEM modules are also available with a microcontroller for internal controls, alarms, and RS232 communications making the amplifier compatible with all systems.

Modes of operation

The devices offer one

mode of operation:



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

Key features -

- Femto and picosecond pulse amplification
- Pulse distortion free up to 1 KW
- Average power up to 33 dBm
- Operating wavength from 1535 to 1565 nm
- Pulse repetition frequency from 10 MHz to 100 GHz
- Polarization maintaining available
- Choice between turn key easy to use benchtop or compact OEM module

What applications -

- High peak power generation
- Non-linear optics
- High speed transmission systems
- Super-continuum and pulse compression







PEFA-SP-C

PULSED ERBIUM FIBER AMPLIFIER 1.5 µm SHORT PULSE FIBER AMPLIFIER



Optical Specifications @ 25 °C	PEFA-SP-C
Mode of operation	Pulsed
Optical pulse length	0.3 to 10 ps
Operating wavength	1535-1565 nm
Peak power	up 1 kW for pulse distortion free
Average input power	-15 to +5 dBm
Saturated output power (0 dBm input in CW)	From 15 to 33 dBm
Pulse repetition frequency	10 MHz to 100 GHz
Dispersion	< 35 fs/nm
Polarization	Random or Linear
Control mode	ACC
Input/output termination	FC/APC, SC/APC, FC/SPC, SC/SPC, E2PS, C1

The PEFA-S-PC 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.

