

PEFA-LP-C SERIES (PEFA-EOLA)

PULSED ERBIUM FIBER AMPLIFIER

1.5 μm LONG PULSE FIBER AMPLIFIER



KEY FEATURES

- Eye-safe 1545 nm operating wavelength
- Energy per pulse up to 110 μJ
- Peak power up to 360 W
- Pulse duration from 200 to 400 ns
- Pulse repetition frequency from 10 kHz to 20 kHz
- Polarization maintaining
- Fourier transform limited linewidth operation
- Diffraction limited or $M^2 < 1.5$
- Wide operating temperature range from -35 $^{\circ}\text{C}$ to +65 $^{\circ}\text{C}$

Description

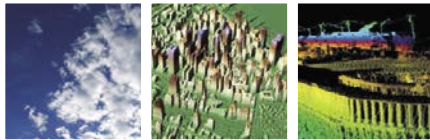
PEFA-EOLA series are Erbium doped fiber amplifiers for polarization maintaining applications. These eye-safe amplifiers are designed for long pulse operation like LIDAR, wind sensing...

The Keopsys device delivers high energy per pulse up to 110 μJ , thanks to our unique architecture.

The output beam is diffraction-limited (output fiber with $M^2 < 1.5$ for energy above 15 μJ).

The PEFA-EOLA is a completely fibered and compact device meaning robustness, reliability and maintenance free, ideal for integration into a complete optical system.

APPLICATIONS



- Aerosol detection
- 2D/3D wind profiler
- Weather monitoring
- Pollution monitoring

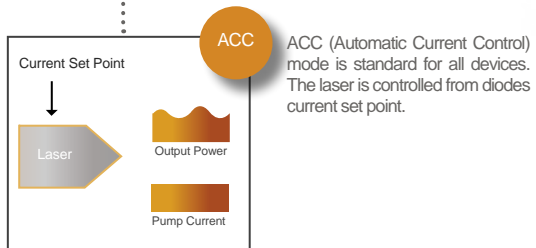
Crédit photo plateforme B130 : Wyecs Prod

4 Platforms



Mode of operation

The devices offer one mode of operation :



B 130

Non contractual photos

10/16 / V01 / IF / keopsys/pulsed-erbium-fiber-amplifier_pefa-lp-c

PEFA-LP-C SERIES (PEFA-EOLA)
1.5µm LONG PULSE FIBER AMPLIFIER

Optical Specifications @ 25 °C	PEFA-EOLA
Mode of operation	Pulsed
Operating wavelength	1543 nm
Energy per pulse	From 10 to 110 µJ
Peak power	From 50 to 360 W
Average input power	16 µW
Average output power	From 200 to 2200 mW
Pulse repetition frequency	10 or 20 kHz
Pulse duration	From 200 to 400 ns
Polarization	Linear
Input/output termination	FC/APC or collimator

The PEFA-LP-C-PM series amplifiers are available as benchtop or as OEM module.

RELIABILITY

The Keopsys 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.

For ordering information and custom solutions, please contact us.



Keopsys 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.