

PEFL-EOLA SERIES

PULSED ERBIUM FIBER LASER

1.5 μ m LONG PULSE FIBER LASER

FEATURES

- Eye-safe 1.5 μ m operating wavelength
- Energy per pulse up to 10 μ J
- Peak power up to 50W
- Pulse duration from 100 to 500ns
- Pulse repetition frequency from 10kHz to 20kHz
- Narrow linewidth available down to 3kHz
- Low RIN and low phase noise
- Linear Polarization
- Fourier transform limited linewidth operation
- Diffraction limited or $M^2 < 1.1$
- Wide operating temperature range from 0°C to +70°C
- Highly integrated design

APPLICATIONS



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

3 Platforms

1.5 μ m

Description

The PEFL-EOLA series are eye-safe, linearly polarized fiber lasers delivering Fourier transform limited pulses. These lasers have excellent RIN and phase noise characteristics.

Pulsewidth ranges from 100 to 500 ns. The laser delivers energy per pulse up to 10 μ J. Output beam is diffraction-limited (output fiber with $M^2 < 1.1$).

The laser system is highly integrated, saving space and cost of integration, which makes it ideal for Doppler heterodyne LIDAR systems.

PE 13D



PE 11A / PE 12A