

CEFL-KILO

CW Erbium Fiber Laser with kilohertz linewidth



M501



B340



B240



MAIN FEATURES

- Narrow linewidth
- Single longitudinal mode
- Operating wavelength from 1545 to 1565 nm
- Output power up to 20 W
- Low RIN
- OSNR > 55 dB
- Wavelength tunability (optional)
- Laser frequency modulation (optional)
- Single mode fiber
- Random or linear polarization
- Maintenance free

MAIN APPLICATIONS

- **LiDAR**
- **ACOUSTIC OR SEISMIC SENSING**
- **ATOM COOLING**
- **ATOMIC SPECTROSCOPY**
- **OPTICAL TWEEZING**

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CEFL-KILO are low RIN continuous lasers with ultra narrow linewidth seeder (down to 1 kHz) and deliver up to 20 W in the 1.5 μm range.

They are specially designed for high-precision applications such as LiDAR or sensing. They can be thermally tuned and their emission line modulated for locking purposes required in atomic spectroscopy and atom cooling.

CEFL-KILO are available in OEM module for integration or user-friendly benchtop. The benchtop platforms offer the possibility to control the laser via the front panel or remotely via serial USB and Ethernet ports.

Both models offer robustness and reliability.

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Many options and configurations are available. Please contact Lumibird to find the best match for your needs and compatibility between options.

CEFL-KILO

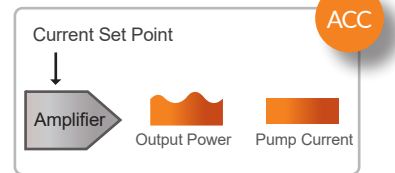
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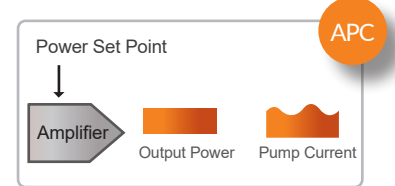
SPECIFICATIONS

| | CEFL-KILO |
|---|--|
| Mode of operation | CW |
| Output power (W) | From 1 to 20 |
| Operating wavelength (nm) | 1550 +/- 2 |
| Wavelength stability over 1 hour, +/- 1 °C (pm) | +/- 0.5 (for all grades) |
| Linewidth (kHz) | 1,5 or 15 (depending on the model) |
| Wavelength thermal tuning range, WT option (pm) | 30 |
| Laser frequency modulation range, FM option | 100 to 200 MHz at 10 kHz |
| Laser frequency modulation bandwidth | DC to 100 kHz (input analog voltage -4 to +4 V) |
| Polarization | Random or linear |
| Seed tap (ST option) | 1 m long fiber for benchtop and FC/APC adapters for module |
| Fiber type | Single mode fiber SMF or PANDA |
| Output termination | FC/APC or collimator (depending on the model) |
| Beam quality, M ² | < 1.1 |

Mode of operation



ACC (Automatic Current Control)



APC (Automatic Power Control)

EASY TO CONTROL!



Benchtop

Control box for modules



Control of device

- User-friendly benchtop with dial and front panel display for easy control and monitoring of the product
- Modules with optional control box and cables for easy evaluation



computer not included

Remote control

- USB port for benchtops
- Command set provided
- GUI available for modules and as an option for benchtops

Reliability

All our fiber lasers and fiber amplifiers are manufactured according to our ISO certified quality management system, which places the needs and values of customers and partners at the heart of our organization. Throughout the manufacturing process, our components and systems are subjected to rigorous tests and inspections, which guarantees their robustness and reliability in the most demanding environments. Countless units operate continuously without maintenance around the world. The ISO 9001 certificates can be downloaded from our website.



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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.