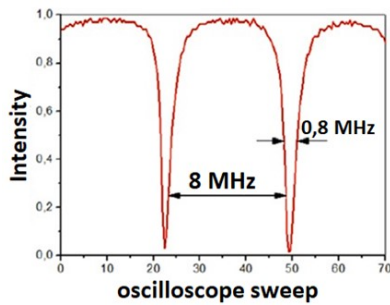


## SINGLE-FREQUENCY YTTERBIUM FIBER LASER



[www.lenlasers.com](http://www.lenlasers.com)

### Overview

**SINGLE-FREQUENCY YTTERBIUM FIBER LASER** has a fully fiber construction "generator - amplifier". The device emits a spectral line in the near infrared region of the optical spectrum. The working wavelength of laser radiation is 1064 nm. The spectral width of the generation line is 0.8 MHz. Output power is 5 W.

Rational, economically promising technical solution was applied during the development of this laser source. This made it possible to abandon the use of expensive optical active fiber of "panda" type and fiber-optic combiners pumping.

### Key Features

- Fully fiber architecture
- Power stability
- High reliability and efficiency

### Technical Description

Parameter	Value
Operating Wavelength	1064 nm
Spectral line width	0.8 ± 0.05 MHz
Average output power	Up to 5 ± 0.1 W
Operation mode	CW
Diameter of the mode field	7 ± 0.5 μm
Radiation quality	TEM <sub>00</sub> (M <sub>2</sub> < 1.1)
Polarization state	linear
Polarization coefficient	1/100 (20 dB)
Optical Output Fiber	6/125/250 μm
Numerical aperture	0.15
Supply voltage	220 V, 50 Hz
Warm-up time	5 sec.
Dimensions	270x230x25 mm
Air humidity	Up to 80% (non-condensing)
Operating temperature	- 10 to + 50 C°