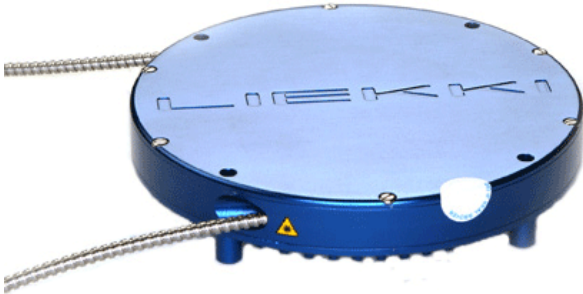


LIEKKI™ OE-Yb-L-15

15 W CW Fiber Laser Module/Optical Engine



LIEKKI™ OE-Yb-L-15 optical engines are plug-and-play continuous wave (CW) fiber laser modules for 10 to 15 W average output power laser applications. The optical engines are fully integrated fiber laser subassemblies with signal output and pump input fibers ready for splicing.

The efficiency and design gives the application designer the flexibility to create a wide range of powerful and easy-to-use solutions.

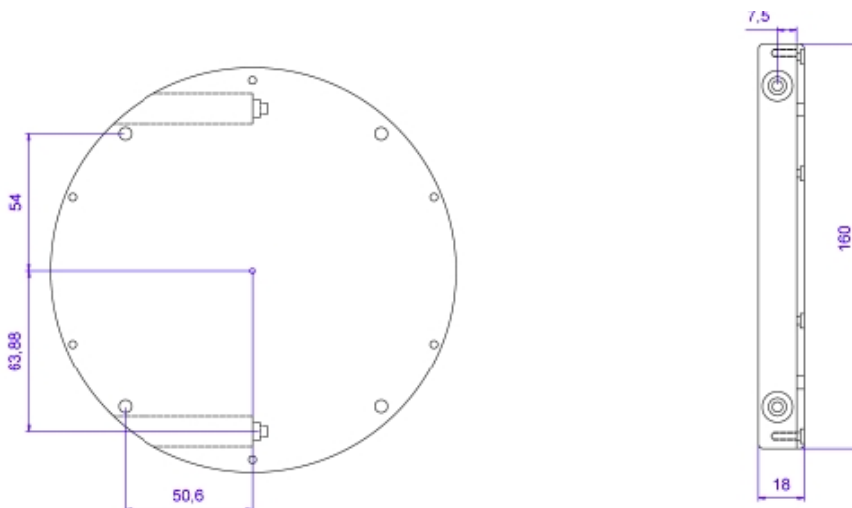
Applications

- Marking and engraving
- Micromachining
- Micro-adjustment
- High-resolution soldering
- Graphic art imaging

Features

- Complete optical engine modules with standard input and output fibers ready for splicing
- High optical efficiency with optimal beam and signal characteristics, minimal nonlinear effects
- Available in smaller footprint conductively cooled versions
- Possibility to fit into customer supplied package
- Reliable design with medium power tolerance and very low photodarkening
- Compact, easy to mount with built-in heat sink function
- Lightweight and robust

Mechanical drawing



Dimensions are in MM. Material Aluminium.

Typical device specification

Optical specifications

Rated output power	10 - 15 W
Central emission wavelength	1090 nm, +/- 2 nm
Mode of operation	CW
Polarization	Random
Pump wavelength	920 nm
Emission bandwidth (FWHM)	0.2 nm
M ²	< 1.1

Mechanical specifications

Complete package size	Ø 160 x 33 mm
Body	Ø 160 x 18 mm
Cooling element	Ø 160 x 15 mm
Weight	< 1100 g (air cooled) < 1400 g (water cooled)
Cooling requirements	Air or water cooling
Pump input/laser output fiber length	0.5 m typical

Environmental specifications

Operating temperature range	+10 to +30°C
Operating humidity range	5 to 90% RH
Storage temperature range	+0 to +70°C
Storage humidity range	5 to 90% RH

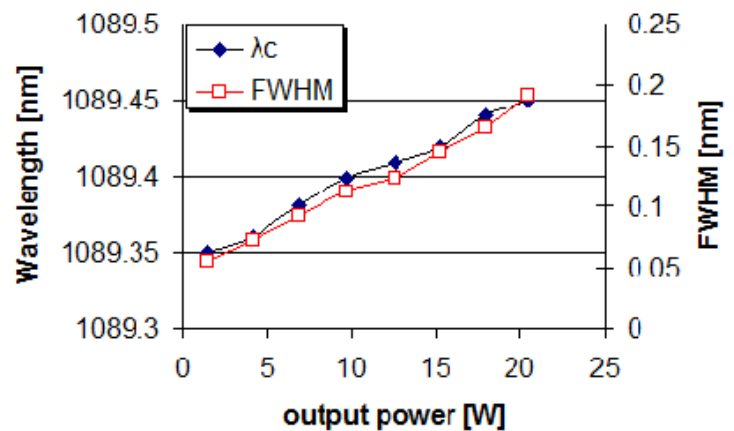
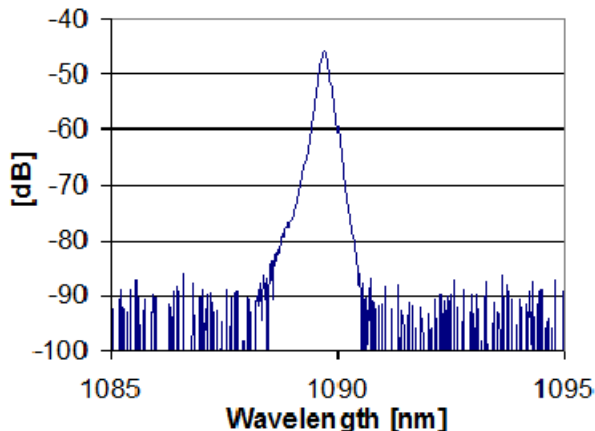
Input pump delivery options

6 x 105 µm/125 µm, NA = 0.15
6 x 105 µm/125 µm, NA = 0.22

Output options

6/125 µm SMF pigtail
FC connector
Metal shielded cables

Typical performance data



Notice

nLIGHT continually improves its products to provide its customers with outstanding quality and reliability. nLIGHT may make changes to specifications and product descriptions at any time, without notice. In addition, nLIGHT offers a limited warranty to ensure customer satisfaction. For complete details, please contact your nLIGHT sales representative.