



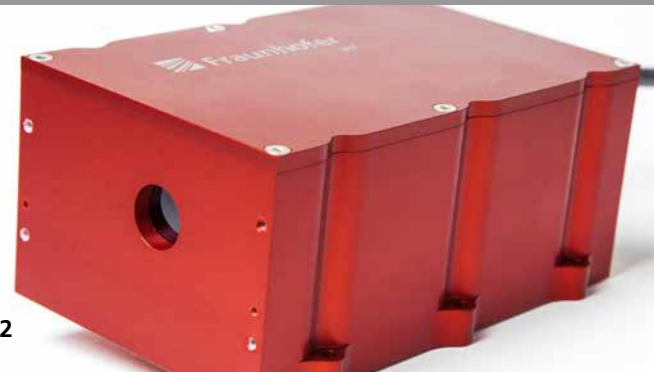
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1 The wavelengths of 2 μm and 3 μm are particularly suitable for medical applications.

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2 The compact semiconductor disk laser modules can be specifically customized.

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INFRARED SEMICONDUCTOR DISK LASERS

High power, tunable wavelength, or extremely narrow linewidth: the semiconductor disk lasers (SDLs) developed at Fraunhofer IAF can be customized to a wide range of applications. At the same time, the SDLs can cover every arbitrary emission wavelength in the 1.9 – 3 μm range. In addition to applications in medical therapy and pumping of solid-state lasers, SDLs are also ideally suitable for measurement technology or quantum optics.

Fraunhofer Institute for Applied Solid State Physics IAF

Tullastrasse 72
79108 Freiburg, Germany

Contact

Dr. Marcel Rattunde
(Business Unit Semiconductor Laser)

Phone +49 761 5159-643
marcel.rattunde@iaf.fraunhofer.de

www.iaf.fraunhofer.de

Features

- 1.9 – 3 μm wavelength range
- Output power up to 10 W
- Very good beam quality
- Low-noise
- Tunable laser modules with extremely narrow linewidth (< 90 kHz) can be realized

Applications

- Medical therapy
- Material processing
- Optical pumping of solid-state media (e. g. Ho-, Cr-based SSLs, optical parametric oscillators)
- Precision measurement technology
- LiDAR (Light Detection and Ranging)
- Quantum optics