

Volume Holographic Grating Stabilized 780nm Diode Laser With an Output Power of 380mW

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Abstract : A ridge waveguide laser stabilized by a compact holographic grating-cavity with an output power of 380 mW, a short-term optical linewidth of 18 kHz and a nearly diffraction-limited beam for saturation spectroscopy of rubidium is presented

Conclusion :

- * Compact and spectrally narrow VHG stabilized ECDL with high output power of 380 mW at 780 nm
- * Excellent laser stability and wavelength tunability via current and temperature
- * VHG period may easily be adapted to different wavelengths in the near infra-red

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