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Title

Modified grating-based external cavity diode laser for simultaneous dual-wavelengths operation

Source

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Abstract

We have reported a modified V-shaped external cavity, which is constructed around a commercial diode laser operating at a center wavelength of $\lambda=785\text{nm}$ by adding a new coated glass plate with about 50% reflectivity to the cavity. This allows simultaneous dual-wavelengths operation in the vicinity of $\Delta\nu_{\min}=0.18\text{THz}$ to $\Delta\nu_{\max}=0.22\text{THz}$, which can be used as laser source for terahertz generation either for semiconductor devices or nonlinear schemes. (19 References).