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Title
Compact single mode tunable laser using a digital micromirror device Frank
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Abstract

The wavelength tuning properties of a tunable external cavity laser based on multiplexed volume holographic gratings and a commercial micromirror device are reported. The 3 x 3 x 3 cur laser exhibits single mode operation in single or multi colors between 776 nm and 783 mn with less than 7.5 MHz linewidth, 37 mW output power, 50 s rise/fall time constant and a maximum switching rate of 0.66 KHz per wavelength. The unique discrete-wavelength-switching features of this laser are also well suited as a source for continuous wave Terahertz generation and three-dimensional metrology. (26 References).