

We use a proprietary AR-coating process to reduce residual diode reflectivities to below 0.001--which guarantees true single-mode operation. This process allows us to use nearly any available single ...

The burgeoning growth of optical communication technology has escalated the demand for lasers with narrow linewidth and broad tuning range, thereby catalyzing the swift advancement of ...

The external cavity diode laser (ECDL) is a versatile laser concept based on a semiconductor gain medium in the form of a laser diode [26-29]. They are widely used in various applications due to their ...

With the continuous optimization of chips and external cavity structures, external cavity diode lasers are increasingly recognized as promising light sources with narrow linewidth and wide ...

For better side mode suppression ratio (SMSR) performance, other devices such as DFB lasers, DBR lasers, or external cavity lasers should be considered. Please see our Laser Diode Tutorial for more ...

The External Cavity Diode Lasers (ECDLs) are designed for the specific size, environmental, and optical characteristics needed of most commercial laser systems, offering narrow linewidth in a compact ...

We report on an External Cavity Diode Laser (ECDL) in a hermetically sealed 14-pin butterfly package with a collimated output beam. The laser emits more than 50 mW at a drive current of 165 mA and ...

Passive alignment and fine wavelength tuning of the proposed external cavity are attractive new features over the state-of-the-art active alignment method and fixed wavelength limitation currently used in ...

An external-cavity diode laser is a laser built around a semiconductor laser diode chip that is integrated into a larger laser resonator, which also contains external optical elements like lenses and a mirror or ...

One diode laser chip should be controlled by one VBG using the traditional external cavity feedback method. In this study, we fabricated a high-power and narrow-linewidth blue diode laser by ...

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