PHOTONICS spectra®

Featured Article

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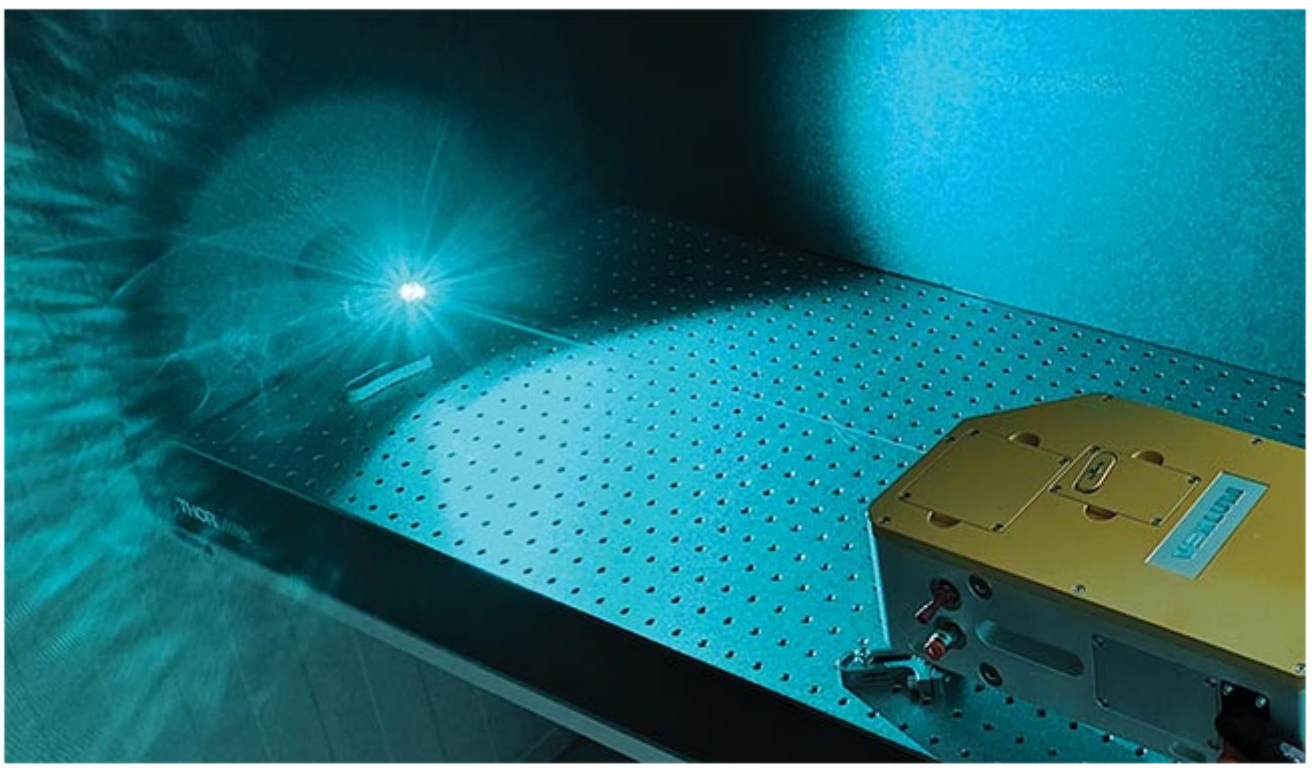
Into the Quantum Domain, Versatile Lasers Are Enabling an Era of an Emerging Technology



Vertical-external-cavity surface-emitting lasers offer a scalable solution that is necessary to support burgeoning quantum applications.

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Featured Products

Optical Isolators

Edmund Optics

Edmund Optics' mini free-space optical isolators are designed for ultrafast and continuous-wave lasers in aerospace, quantum, or research systems. Featuring a ~Ø10 mm × 10.5 mm size, the isolators block disruptive back-reflected light and can be integrated into embedded systems and production modules.

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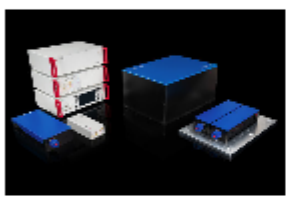

Clock Laser for Quantum Computing

Toptica Photonics AG

TOPTICA presents ultra-stable Clock Laser System for Quantum Computing and Optical Clocks. These clock laser systems are diode lasers whose linewidth is reduced to less than 1 Hz via frequency stabilization to high-finesse optical ULE cavities.

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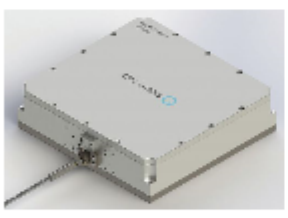

795-nm Diode Laser for Rb Vapor Pumps

QPC Lasers Inc.

QPC Lasers offers Brightlock® wavelength stabilized laser modules for pumping the D1 line of Rb at 795 nm, which are used for applications such as medical imaging, quantum sensing and computing. Standard products feature powers to 180 W and linewidths below 250 pm, with other specifications on request.

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Fiber Laser for Barium Manipulation

Modulight Inc.

The ML6600 1762-nm fiber laser from Modulight was specifically designed for barium clock transitioning for applications in quantum information processing, atomic clock development, and scientific research. The laser delivers up to one Watt of output power and enables ion manipulation.

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