

Laser Diode Integrated Module



Overview

Laser Diode Modules (LD Modules) provide a fully integrated laser solution, combining a laser diode, lensing, thermal management, and electrical interface within a compact, user-friendly housing. Available in UV through LWIR wavelengths, our modules offer single and multimode options, free-space. Whether it is diodes for extremely high reliability applications such as LiDAR pumping or high-power pump modules for industrial and security applications, or customized laser diodes for scientific applications, TRUMPF Photonics is your OEM design and manufacturing partner of choice. From our. Wavelength stabilized and un-stabilized laser diodes in two compact packages (TO-56 Can and 14-pin butterfly packages). Multiple visible and IR wavelengths with free-space and fiber coupled solutions are available. Vertical Integration Experience the entire value chain from epitaxy to packaging in house! Volume Supplier Count on high reliability products and. Laser Diodes and Modules are semiconductor devices that can emit a beam of high intensity focused radiation, typically in the infrared, visible or ultraviolet wavelength ranges of the electromagnetic spectrum, coherently (light waves of the same wavelength, phase and direction).



Article Content

Lasers product area overview | ams OSRAM

ams OSRAM is a leading player in the field of colored edge-emitting laser diodes. Our comprehensive product portfolio is supporting a wide range of applications

Laser diode modules

We use bare laser diode chips sourced from multiple chip manufacturers, allowing for fast and efficient production of module solutions spanning various

ULTRA-COMPACT UNCOOLED 980nm MICRO PUMP LASER DIODE MODULE

The laser module provides designers of ultra-compact integrated amplifier systems with the tools to enable low-noise, high power optical amplification within package volumes previously unachievable.

INTEGRATED THERMAL MANAGEMENT OF FIBER COUPLED DIODE LASER

Abstract: A laser diode package, comprising a housing having a metal base portion, an integrated heat spreader formed within the base, the integrated heat spreader comprising a first phase-change

Pulsed Laser Diode Modules

The high-volume/low-cost series consists of pulsed laser diodes in a metal housing that are best suited for consumer products such as laser rangefinders. SMD

Laser Diodes, Modules | Optoelectronics | DigiKey

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780nm DFB Laser Frequency Standard for Rb Atomic

Available in Preconfigured 780nm Diode Laser Driver Maximizes Cost Effectiveness Eblana's proprietary DX-1 incorporates the butterfly laser module with an

ACMER Laser Engraving Machine, P3 2IN1 Desktop Diode

ACMER Laser Engraving Machine, P3 2IN1 Desktop Diode 10000Mw& 2000Mw IR Output with Integrated Housing, Laser Cutting Built-In Camera Module and Air Assist 800Mm/S for

Ultra Compact 1535 Nm Pulsed Fiber Laser Source High Peak Power

Laser Diode Package Type Through Hole Mounting Type universal type Diode Type Integrated laser module including DFB + pump diode Application Laser ranging systems distance measurement

Laser Diodes and Pump Modules

Discover the industry-leading reliability and performance of TRUMPF's laser diode pump modules. We offer a flexible portfolio of high-power modules with both bar

Diode Laser Components | Coherent

Coherent Diode Laser Components offer a broad wavelength range with scalable power levels. Choose from single emitters, bars, stacks, or

Laser Diodes and Pump Modules

From our vertically integrated laser diode manufacturing location in New Jersey, USA, we supply the pump diodes for all TRUMPF Group lasers including

808 nm laser diode

Turn-key integrated laser diode module called "CCMI" for 10 to 200 W multimode laser diodes. The module is offered with a high power SMA connector. The GUI

ULTRA-WIDE TEMP. UNCOOLED 980 nm PUMP LASER DIODE MODULE

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Home | Hamamatsu Photonics

The official website of Hamamatsu Corporation whose mission is to advance science and industry through photonic technologies. Our products include

(PDF) Wavelength-stabilized DBR high-power diode laser

Simon Rauch Carlo Holly Hans-Dieter Hoffmann Power scaling of laser diode modules using high-power DBR chips Conference Paper Mar 2020

Aerodiode

AeroDIODE offers photonics solutions: precision & short pulse laser diode drivers, fiber modulators, synchronization electronics, laser diode sources.

MICRO-FORMAT UNCOOLED 980 nm PUMP LASER DIODE MODULE

The laser module provides designers of ultra-compact integrated amplifier systems with the tools to enable low- noise, high power optical amplification within package volumes previously unachievable.

MICRO-FORMAT UNCOOLED 980 nm PUMP LASER DIODE MODULE

MICRO-FORMAT UNCOOLED 980 nm PUMP LASER DIODE MODULE MLU96Z***-7* The Coherent MLU96Z-series uncooled pump laser module represents continuing innovation in packaging

Laser diode module red

Small, compact and reliable diode laser module with red 650nm @ 5mW. Adjustable collimator for customer specific focal length. Integrated diode driver

WIDE TEMP. UNCOOLED 980 nm PUMP LASER DIODE MODULE

WIDE TEMP. UNCOOLED 980 nm PUMP LASER DIODE MODULE MLU96ZW***-7* The Coherent MLU96ZW-series uncooled pump laser module represents continuing innovation in packaging

Diode Lasers

IPG diode laser modules and racks take our industry-leading diode performance to the next level of integration. These lasers combine highly reliable IPG single emitter diodes with delivery fibers for

Contact Us

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