

Q Blue Laser Diode Model



Overview

Discover the OE4045 HI-Q® Blue Laser, engineered for quantum state prep with ultra-narrow linewidth, low noise, and stability from 435–480 nm. It features low noise, power stability, ultra compact design, long lifetime, cost-effectiveness and easy operation. The laser is used in measurement, communication, spectrum analysis, etc. Mouser offers inventory, pricing, & datasheets for Blue Laser Diodes. We now offer 100kHz DFB laser diode with 100mW at 1530-1560nm in fiber coupled butterfly package, part number QDFBLD-1550-100N. Details are given here: [html](#) We supply semiconductor. CrystaLaser designs and manufactures state of the art ultra-compact diode-pumped blue laser systems. The Q-Series lasers deliver high-repetition-rate processing of materials like sapphire. The BlueBird series of VCSEL pumped self-seeded Single Longitudinal Mode (SLM) master oscillator Nd:YAG laser producing narrow spectrum in nanosecond regime.



Article Content

High-Power Q-Switched Diode-Pumped UV and Green

Lumentum Q-Series® lasers lead the market for high-power Q-switched diode-pumped UV and green lasers used for a wide variety of high-precision,

440 nm blue CW diode laser, q-switched solid state laser

Low noise continuous wave blue 440 nm diode laser with high power and high power stability. Q-switched diode pumped solid state (DPSS) laser with high pulse energy and peak power.

Diode-pumped air-cooled Q-switched laser SHIFT

Diode-pumped air-cooled Q-switched laser cessible with conventional solid-state lasers. Nd:YAG or Nd:YLF lasers figure below and datasheets in the next pages. High peak intensity pulses at visible

Blue-green II-VI laser diodes

The first blue-green laser diodes were demonstrated in our laboratories in early April 1991 using wide band gap II-VI semiconductors. Since then, devi

Study of equivalent circuit of GaN based laser chip and ...

High-speed GaN-based lasers play a pivotal role in visible light communication (VLC) systems; however, the causes of the limited modulation response of our fabricated laser diode (LD)

PLPT9 450LB_E ams OSRAM | Mouser

PLPT9 450LB_E ams OSRAM Laser Diodes Blue Laser Diode datasheet, inventory, & pricing.

Albania Laser Diode Market (2025-2031) | Outlook Growth & Forecast

6Wresearch actively monitors the Albania Laser Diode Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue analysis, and forecast outlook. Our

Laser diode

The laser diode chip removed and placed on the eye of a needle for scale A laser diode with the case cut away. The laser diode chip is the small black chip at the

Laser Diode Market Size and Outlook Report 2026 to 2035

Laser Diode Market Overview • Laser Diode market size has reached to \$9.37 billion in 2025 • Expected to grow to \$15.47 billion in 2030 at a compound annual growth

An Introduction to Laser Diodes

An Introduction to Laser Diodes Learn about the laser diode, including package types, applications, drive circuitry, and some laser diode specifications.

High-Powered Diode Lasers—New, Bright and Blue

Feature OPEN High-Powered Diode Lasers—New, Bright and Blue Valerie C. Coffey
Blue diode laser designs with kW powers are advancing in

Chapter 1 Laser Diode Basics

Laser diodes are unique compared with other types of lasers. A little background knowledge of laser diodes will be helpful for the readers to understand the contents of this book. We will only briefly

Diode Laser Teeth Whitening: What You Need to Know Before Buying

Diode laser teeth whitening, particularly with a 980nm 15W device, offers faster and more effective results than traditional methods when paired with the right gel and proper technique, as supported by

(PDF) Blue Diode Lasers

PDF | The recent achievement of compact blue-emitting gallium nitride semiconductor lasers is likely to have far-reaching technological and

Blue Laser Diodes - Mouser

Blue Laser Diodes are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Blue Laser Diodes.

OSRAM Metal Can, PLPT9 450LB_E Color Lasers

Blue Laser Diode in TO90 Package ams OSRAM offers a wide range of colored single-mode and multi-mode edge emitting Laser diodes for dedicated applications.

Blue Laser, blue laser system, violet blue laser diode

The compact blue lasers are based on our proprietary laser design technology. This new technology allows our blue crystal lasers to operate in TEM₀₀ mode with low amplitude noise and extremely low

Design of High Peak Power Pulsed Laser Diode Driver

This paper attempts to describe a laser diode driver circuit using the depletion mode gallium nitride high electron mobility transistor (D-mode GaN

Ireland Laser Diode Market (2025-2031) | Share & Forecast

6Wresearch actively monitors the Ireland Laser Diode Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue analysis, and forecast outlook. Our

Design and fabrication of high power InGaN blue laser diode over 8 W ...

A simple model of blue LD structure was used in this work to simplify the simulation and discussion, as shown in Fig. 1(a).

Diode laser / actively Q-switched / blue

CrystaLaser designs and manufactures state of the art ultra-compact diode-pumped blue laser systems. Our blue laser features with high stability, high efficiency, high

OE4045 HI-Q® Blue Laser | Ultra-Stable Low-Noise

Discover the OE4045 HI-Q® Blue Laser, engineered for quantum state prep with ultra-narrow linewidth, low noise, and stability from 435–480 nm.

QPhotonics, Laser diode online store

"I have been using laser diodes from QPhotonics for several years in time-resolved luminescence experiments. These laser diodes are rugged and reliable, which allows me to use them in state-of

Maldives Laser Diode Market (2025-2031) | Revenue & Share

6Wresearch actively monitors the Maldives Laser Diode Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue analysis, and forecast outlook. Our

Diode-end-pumped passively Q-switched blue laser with

Thus, preventing the 473 nm blue laser from passing through the Cr 4+:YAG crystal by inserting a mirror with a suitable coating would make a great sense to improve the output laser. In

Samoa Laser Diode Market (2025-2031) | Trends & Companies

6Wresearch actively monitors the Samoa Laser Diode Market and publishes its comprehensive annual report, highlighting emerging trends, growth drivers, revenue analysis, and forecast outlook. Our

450nm laser diode from 50mW up to 20W – fiber coupled 450 nm laser diode

These single-mode and multi-mode fiber-coupled 450nm laser diodes are offered as stock items or associated with a CW or pulsed Turn-Key

Blue Pulsed Lasers

The standard BlueBird lasers emits mainly 440nm (the residual 660nm can be also provided as separate output). The laser models with customized specifications

Contact Us

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