

Blue Laser Diode Supplier



Overview

Explore 31 top manufacturers and suppliers of Blue Diode Lasers in our comprehensive photonics buyers' guide. A blue diode laser is a type of semiconductor laser that emits light in the blue wavelength range of the electromagnetic spectrum, typically between 400 and 500 nm. Blue lasers are light sources emitting electromagnetic radiation with wavelengths approximately between 400 nm and 500 nm. While wavelengths around 405 nm are technically in the violet spectral region, commercial “blue laser” categories often include them due to overlapping technologies and. Blue Laser Diodes are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Blue Laser Diodes. Diode lasers are. Diode laser for the processing of highly reflective metals such as copper or gold in a new power class of up to 6 kW laser power Low energy absorption of highly reflective metals such as copper or gold in the 1,000 nm wavelength range poses major challenges for standard IR lasers. The required high. Blue lasers (445-465 nm) contain directly-emitting diodes and produce an optical output power of up to 10 W. This laser has a fast switch-on time, excellent stability, and operates in a wide temperature range. As a standard, this laser comes with a fiber connection.



Article Content

Blue High-Power Lasers

Blue lasers (445-465 nm) contain directly-emitting diodes and produce an optical output power of up to 10 W. This laser has a fast switch-on time, excellent stability, and operates in a wide temperature range.

[Blue Lasers | 420-499nm, pulsed, CW & diode lasers | Shop RPMC](#)

With wavelengths from 415 to 495 nm, our blue lasers provide unmatched versatility for precise materials processing, superior metal absorption, and high-resolution imaging.

Blue Ultra-Brilliant Diode Laser with High Brightness

This positions Laserline as a full-service provider for diode lasers in the blue wavelength range and covers a broad product spectrum from systems with high fiber diameters to power levels in the multi

[Blue Diode Lasers | Suppliers | Photonics Buyers' Guide | Photonics ...](#)

Explore 31 top manufacturers and suppliers of Blue Diode Lasers in our comprehensive photonics buyers' guide. A blue diode laser is a type of semiconductor laser that emits light in the blue

[Blue Lasers – Buying Guide & Supplier List | RP Photonics](#)

[Blue Lasers – Buying Guide & Suppliers](#) Use this blue lasers buying guide to compare major types, define selection criteria, and find suppliers: [☐☐ Technical](#)

[The latest products for diode lasers in 2024 | Electro Optics](#)

How do diode lasers work? Diode lasers generate light by combining electrons (negative) and holes (positive) at a semiconductor junction, releasing photons. Reflective surfaces create an optical cavity

[445nm Blue Semiconductor Lasers | High-Power Diode Laser Supplier ...](#)

Explore high-performance 445nm blue lasers from Vivlaser. Stable output, customizable power, and reliable supply for industrial, medical, and research applications.

Blue Laser Diodes

ProPhotonix offers compact, high-quality 450nm and 488nm blue laser diodes with power levels up to 3500mW. Our expertise in laser diode technology allows us to provide you with any technical support

[Introducing the New High-Efficiency Blue Laser](#)

"The new blue laser diode represents a significant advancement in blue laser technology, providing our customers with a powerful and efficient solution for 435nm 60W Blue Engraving Laser Module for Industrial Laser Cutting

High Power 60W Blue Laser Output Strong optical power supports high speed engraving cutting and industrial material processing applications

Blue Lasers - Buying Guide & Supplier List | RP Photonics

This blue lasers buying guide provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

450nm Laser Diodes Market Analysis 2026

Global 450nm Laser Diodes market size 2021 was recorded \$193.7 Million whereas by the end of 2025 it will reach \$266.9 Million. According to the author, by 2033 450nm Laser Diodes market size will

Blue High Power Diode Laser up to 6 kW | LASERLINE

Laserline's blue high power diode laser series revolutionizes the processing of copper, gold and its alloys in various ways. With approximately 445 nm, these lasers offer the ideal wavelength for the

Single Mode Blue Laser Diode Market Consumer Demand And

The Single Mode Blue Laser Diode Market is experiencing rapid evolution driven by technological innovations, increasing demand across various industrial and consumer sectors, and a

Blue Laser Diodes Market Report: Size, Growth, Trends & Forecast

Blue Laser Diodes Market size was valued at USD 268.9 Million in 2023 and is expected to reach USD 374.9 Million by 2031, with a CAGR of 5.8% from 2024-2031 The report provides key trends, growth

Blue Laser, blue laser system, violet blue laser diode

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 reliability, low noise and excellent

Buy In Bulk Laser Diode Driver 1-Year Warranty & Blue Laser Module ...

This type of driver is especially well-suited for laser diodes requiring constant current to maintain a stable output, such as in medical and industrial applications. By delivering a uniform current, constant

Blue Semiconductor Laser Market 2025

The supply chain for blue laser components is still developing, leading to procurement challenges. Limited availability of key semiconductor materials and fluctuating prices impact production

Avalanche Laser Diode Global Market Report 2026

Avalanche Laser Diode Global Market Report 2026 - An avalanche laser diode (ALD) is a semiconductor laser that combines stimulated light emission with avalanche carrier multiplication in

What Is Blue Laser Light? Wavelength, Applications & Safety Guide

Confused about blue laser light? Learn how 405–450 nm wavelengths differ from red/green lasers, why power matters for safety, and where they're actually used — not just in pointers.

445nm Blue Semiconductor Lasers | High-Power Diode

Explore high-performance 445nm blue lasers from Vivlaser. Stable output, customizable power, and reliable supply for industrial, medical, and research

Contact Us

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