Blue laser pointer diode model

Overview

A powerful 3W blue laser in a medium size full aluminium body, it has a continuous switch unlike the side click switch on our laser pointers.

Key Takeaways

Popular blue laser pointer diodes include 450 nm, 455 nm, and 460 nm models, with varying power outputs and packaging options.

Common Blue Laser Diode Modelsams OSRA

M PLPT9 450LC_E: A high-power blue laser diode with a wavelength of 455 nm, delivering up to 5. 5 W optical power in a robust TO90 metal can package. It features high wall-plug efficiency (~43%) and is suitable for industrial, medical, and high-demand applications.

Roithner RLP-450 Series: Direct-emitting 450 nm laser diodes for pointer applications, with output power ranging from 1 mW to 50 mW. These diodes include Automatic Power Control (APC) for stable output and are housed in polished metal cases, making them ideal for presentations and scientific use. Berlin Lasers 460 nm Pointer: Uses a 460 nm diode with low-power options like 1 mW and 5 mW, providing a stable and reliable beam for lectures, conferences, and laser displays.

Key Considerations

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Wavelength: Blue laser diodes typically range from 415 nm to 495 nm, with shorter wavelengths offering smaller spot sizes and stronger material absorption, which is beneficial for high-resolution imaging or data storage applications. Power Output: Pointer diodes usually range from 1 mW to 50 mW, while industrial or high-power diodes can reach several watts. Ensure the power rating complies with safety regulations for your intended use.

Packaging: Common packages include TO-can (TO18, TO56, TO90) for robust mounting and thermal management, and integrated pointer housings for handheld use. Applications: Blue laser diodes are used in pointers, scientific research, microscopy, laser displays, and industrial processing. High-power diodes can also be converted to white or other colors using phosphor conversion.

For purchasing, suppliers like Mouser Electronics and RPMC Lasers offer datasheets, inventory, and technical support for selecting the appropriate blue laser diode for your application.

Article Content

460nm Blue Laser Pointer, 1mW, 5mW Blue Lasers

Blue laser pointer adopts the most advanced 460nm laser diode, projecting the most reliable and stable laser beam and light spot in various applications such as

ams OSRAM 455 nm High-Efficiency Blue Laser Diode

Whether for large-scale projections or intricate laser displays, this blue laser diode delivers exceptional results, enhancing visual experiences across multiple

460nm Blue Lasers | Berlinlasers

460nm blue lasers employs 460nm blue laser diode as beam emitting source, ensuring high intensity and high brightness blue laser source projection from

Blue Lasers | 420-499nm, pulsed, CW & diode lasers

In recent years, GaN based laser technology has provided blue, green and UV laser diodes, now available in wavelengths from 375 nm to 521 nm, with output

Laserland Supplier of Laser Diode, Laser Diode Modules, Laser Lens ...

Laserland focuses on laser manufacturing and sales for 10 years. We supply laser diodes, diode laser modules and of various sizes and wavelength, with reasonable prices, excellent quality for customers

150mW & 1600mW & 3000mW 445nm Blue 304 Laser

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Compact Blue Laser Diode Modules

All of our laser modules are designed for compactness, ease of use, and integration into your system. Many of our laser modules can be configured to output blue laser light. Select from the product

Blue Laser Pointers for Sale

You will find a broad range of inexpensive blue laser pointers for sale on eBay. Understanding some of the features you can choose for a blue laser will help you find the device that works for you.

Blue Lasers – violet, cyan, upconversion, laser diodes,

Blue lasers from CNI include DPSS lasers (diode-pumped solid-state lasers) and diode lasers. The laser head comes with cooling and a precise temperature

5mW Blue Laser Pointer, 460nm Blue Laser | Berlinlasers

5mW blue laser pointer utilizes the most advanced finished 460nm laser diode technology, keeps the purest and brightest blue light emitting in the wild. This

Blue laser classification and application | Berlinlasers

Blue lasers get multiple type of blue laser pointer, blue laser diode module and blue DPSS laser, providing excellent blue laser light source for presentation, optical

High-Powered Diode Lasers—New, Bright and Blue

Blue diode laser designs with kW powers are advancing in industrial processing applications, including cutting, welding and foil joining of copper and

Amazon : Laser Pointer

Browse a diverse selection of laser pointers, from compact designs to long-range models. Find reliable, durable options suitable for a variety of applications.

Laser diode

Laser diodes are the most common type of lasers produced, with a wide range of uses that include fiber-optic communications, barcode readers, laser pointers, CD / DVD / Blu-ray disc reading/recording,

50000mw 450nm 5 in 1 two model USB Blue Laser Pointer

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This 50000mw 450nm 5 in 1 two model USB Blue Laser Pointer,high brightness, high quality, and high reliability are the foundation of this product. Made of Stainless Steel (come with a 40mm copper

Premium Blue Laser Pointers

Precision & Power: Alpec Sotonic Premium Blue Laser Pointers. True blue 450nm beam, 1500 ft range, sleek design. Perfect for precision and style.

ams OSRAM 455 nm High-Efficiency Blue Laser Diode | ams OSRAM

Introducing the New High-Efficiency Blue Laser Diode with 455 nm Wavelength Premstaetten (Austria) and Munich (Germany), (March 05, 2025) – ams OSRAM (SIX: AMS), a global leader in intelligent

Zeus XTR

Zeus XTR. This new extremely powerful blue laser with an adjustable focus and 3 modes (high power, lower power and strobe) is guaranteed to blow your mind.

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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