

# **Semiconductor Blue Laser Diode Module**





## Overview

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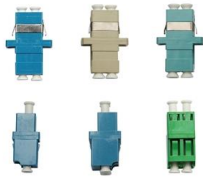
The Stradus® Blue (445nm, 473nm, and 488nm) modules are all direct diode, TEM00 lasers that offer the highest possible optical power and lowest noise available today. ProPhotonix' compact blue laser modules at 450nm laser and 488nm provide an ideal solution to a wide variety of applications including alignment, projection and display, 3D printing, bio-fluorescence spectroscopy, and confocal microscopy, particle measurement and metrology. For nearly 30 years, RPMC's selection of Bluet Lasers has set the standard for affordable precision across a wide range of applications, from defense to medical, industrial, and research with 1000's of successful units in the field.

Premstaetten (Austria) and Munich (Germany), (March 05, 2025) - ams OSRAM (SIX: AMS), a global leader in intelligent sensors and emitters, announces the launch of its new high-power blue laser diode, the PLPT9 450LC\_E. Blue laser modules are available at 375 nm, 405nm, 440nm, 473nm and 488nm wavelengths.



## Semiconductor Blue Laser Diode Module

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### 2021 Development of 10W-class high-power blue semiconductor laser diode

By combining the light beams of multiple blue semiconductor LDs in various ways, high-power blue laser module such as output 1 kW of blue light through an optical fiber with core diameter of 300  $\mu\text{m}$  for

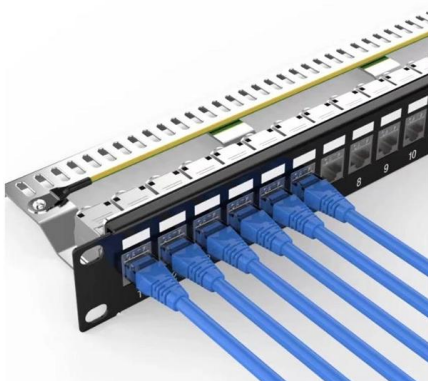
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### The latest products for diode lasers in 2024 , Electro Optics

Diode lasers use semiconductor technology that produces a coherent projection of light in the visible to infrared range (Credit: Mia Stendal/Shutterstock ) The ability of diode lasers to convert electrical



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### Laser diode

Laser diodes form a subset of the larger classification of semiconductor p - n junction diodes. Forward electrical bias across the laser diode causes the two species of

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### The Blue Laser and Its Applications in Industry and

Blue Laser, its advantages and applications. State-of-the-art blue semiconductor laser modules make a reliable and cost-effective choice for numerous purposes.

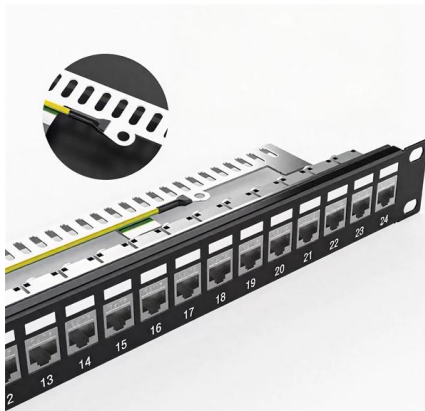
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### **Blue Laser Diode Modules Online , World Star Tech**

High-performance blue and violet laser modules for precision applications. Explore solutions designed for unmatched accuracy. Power your projects!

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### **2021 Development of 10W-class high-power blue semiconductor laser**

By combining the light beams of multiple blue semiconductor LDs in various ways, high-power blue laser module such as output 1 kW of blue light through an optical fiber with core diameter of 300 um for

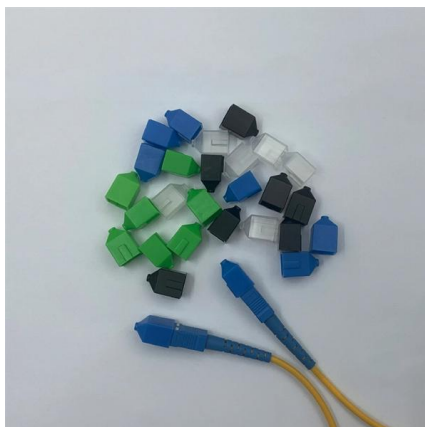
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### **Blue Lasers , 420-499nm, pulsed, CW & diode lasers**

Shop RPMC's Blue lasers: 420-499nm, pulsed, CW & diode lasers, for various research & industrial applications like copper & non-ferrous metal welding

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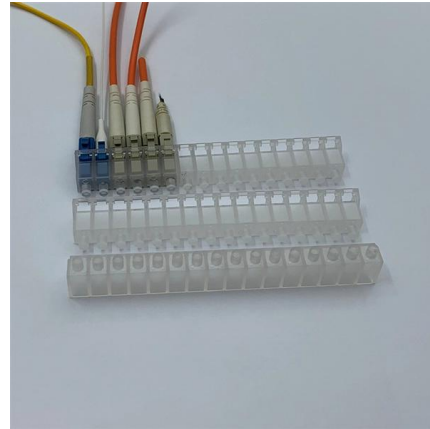




### **488nm 450nm blue laser diode module - Thyristors Online , High**

Blue laser light is very bright and dangerous to eyes. Even reflections can cause permanent eye damage. Always wear proper laser safety glasses matching the wavelength. Never point the laser at

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### **Analysis of 488nm Blue Laser Diode Module , Berlinlasers**

488nm blue laser diode module applies a qualified semiconductor laser diode, by connecting with electric current, it enables high density and high transmittance blue laser light source

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### **Blue Lasers , 420-499nm, pulsed, CW & diode lasers , Shop RPMC**

With up to 2000 W of power and customizable packaging from components to turnkey systems, RPMC's blue lasers ensure reliable performance and tailored integration for your application requirements.

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### **Compact high-brightness and highly manufacturable**

Compact high-brightness and highly manufacturable blue laser modules Valentina Serafini a, Martina Riv a a, Giulia Pippione b, Alessandro

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## Compact Blue Laser Diode Modules

Configure the right blue laser module for your application from a wide range of laser module platforms with wavelength, beam shape, output power, and electronic

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## 445nm Blue Laser Diode Module

445nm blue laser diode module employs genuine quality blue laser diode with glass window for dust proof, glass cylindrical lens, APC and ACC high performance

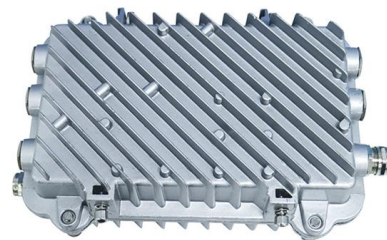
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## Stradus Laser Diode Module Blue

The Stradus® Blue (445nm, 473nm, and 488nm) modules are all direct diode, TEM00 lasers that offer the highest possible optical power and lowest noise available today.

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## Diode

In this module on LEDs, we will cover the follow topics: Basic operating principles of LEDs, Survey of LEDs, Blue LED and solid state lighting, Basic principle of

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## How semiconductor laser diodes work

A simple overview of how semiconductor diodes work like a cross between ordinary (gas) lasers and LEDs.

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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 optical sensors

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## 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 platforms.

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### Compact Blue Laser Diode Modules

Blue Laser Diode Modules available in 450nm and 488nm, and a range of form factors, output powers, and beam shapes to suit your application.

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### Blue Laser Diodes - Mouser

Mouser offers inventory, pricing, & datasheets for Blue Laser Diodes.

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### Blue Laser Diode Modules

Blue laser modules are available at 375nm, 405nm, 440nm, 473nm and 488nm wavelengths. Blue Laser Modules are fully self-contained with an integrated

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### Pricing Guide for Buying Laser Diodes

Introduction: Semiconductor laser diodes range widely in price based on a few key parameters. The wavelength, power, spectral qualities, package type, cavity type

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**OEM ODM 525nm 520nm Green Laser Diode Module 50mW 40mW**

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**Amazon : Blue Laser Diode**

Laser Diode 30Pcs 5V 650nm 5mW Mini Red Dot Laser Head, 6mm Outer Diameter Laser Module with Leads, for Arduino Laser DIY Electronics Projects, High-Stability Red Laser Diode

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## Laser Diode Modules , indie Semiconductor, EXALOS

EXALOS' Micro-RGB modules are ultra-compact full-color optical modules based red, green, and blue laser diodes or superluminescent diodes, and are suited for

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For datasheets, pricing, or custom fiber access solutions, please visit:  
<https://frindel.es>