

Complete List of Multilayer Laser Diode Models



AI Overview

Multilayer and multi-mode laser diodes are available across a wide range of wavelengths, powers, and packages from multiple manufacturers, with detailed specifications accessible through specialized databases and suppliers.

Overview of Multilayer Laser Diodes

Multilayer laser diodes, often referred to as multi-mode or broad-area diodes, are semiconductor devices designed to emit high-power laser light with multiple transverse modes. They are widely used in material processing, medical applications, fiber laser pumping, LIDAR, and sensing. Key specifications include:

- Wavelengths: Typically 375 nm to 2000 nm for standard diodes, with Quantum Cascade Lasers (QCLs) and Interband Cascade Lasers (ICLs) extending to 3–11 μm .
- Output Power: From milliwatts to tens of watts in continuous wave (CW) or pulsed operation.
- Packages: TO-can, butterfly, C-mount, flatpack, fiber-coupled modules, and chip-on-submount.
- Stripe Widths: 100–400 μm for broad-area diodes, affecting beam structure and power.
- Applications: Laser pumping, medical procedures, material processing, LIDAR, and defense systems.

Representative Models and Series...

Article Content

Jun 10, 2026

Laser Diode Search Engine

Just select your specifications in the search mask and you get an instant overview of all the laser diodes that meet your

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Laser Diode Selection Guide (ALL MANUFACTURERS)

This allows users to compare laser diodes from all manufacturers and find their best options.

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OPTICAL DEVICES

638nm High-output Laser Diode for Projectors Compared to LEDs, semiconductor lasers have lower power consumption, higher

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Multimode Laser Diodes

We offer only diode lasers, laser modules, solid state lasers and amplifiers, ultra-short pulse lasers, microchip lasers, fiber lasers and

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Multimode Laser Diodes

Multimode laser diodes provide higher power outputs than single-mode lasers and are spatially and longitudinally multimode with a

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Laser Diodes - semiconductor, gain, index guiding, high power

Laser diodes are semiconductor lasers with a current-carrying p-n junction as the gain medium. They are the most important type of

Jul 16, 2026

The latest products for diode lasers in 2024 | Electro Optics

The ability of diode lasers to convert electrical energy directly into laser light has led them to become an increasingly popular choice

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Laser Diode Selector

The laser diode selector allows you to specify the wavelength, power and package and download

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Free-Space Multimode Laser Diodes | UV-LWIR | Shop | RPMC

Free-Space Laser Diodes Transmit Light with Greater Efficiency Free-space laser diodes are a key component in many optical

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Laser Diodes, Modules | Optoelectronics | DigiKey

Laser Diodes, Modules Laser Diodes and Modules are semiconductor devices that can emit a beam of high intensity focused

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Diode Laser Modules | Coherent

Coherent Diode Laser Modules are compact, economic modules that provide the beam shape,

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Laser Diodes, Modules | Optoelectronics | DigiKey

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Plug and Play Laser Diode Modules

Explore a full range of plug-and-play configurable laser modules. Commercial and industrial applications. Click to enquire.

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Multi-Mode Laser Diodes

Narrow down on the list of Multi-Mode Laser Diodes by wavelength, type, technology and other parameters. Once you find a list of

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Laser Diode Modules

Laser diode modules are modules containing diode lasers, and possibly also some optics, cooling devices, electrical elements, etc.

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Laser diodes: stacks, bars & arrays | MEETOPTICS Academy

Laser diode bars, also known as laser diode arrays, comprise multiple single emitters, laid out side-by-side on a single substrate.

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Schematic of laser diode structure, description of

Schematic of laser diode structure, description of multilayer and the front and rear facets coated with single

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Diode Lasers

IPG diode laser modules and racks take our industry-leading diode performance to the next level of integration. These lasers

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Laser Diodes by Wavelength

The Laser Diode Selection Guide provides a comprehensive list of all laser diodes available from stock,

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Multimode Laser Diodes | 405-1900nm

All of the multimode laser diodes we offer are available with a wide choice of package options - bare die, chip-on-carrier, open

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Laser diode sources : OVERVIEW | Aerodiode

888 nm laser diode : fiber coupled laser diodes from 10 W up to 200 W multimode
From: 595€ Select options

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Laser Diodes and Modules

Each semiconductor laser diode system can be ordered with or without Blue Sky Research's patented

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Laser Diodes

A Laser Diode is a type of semiconductor device that produces coherent light through the process of stimulated emission. Laser

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Diode Laser Stacks

Scaleable diode laser output power, even into the multi-kW range, with reliable, long lifetime, industry

Jun 26, 2026

Diode Lasers Information

Diode lasers (or laser diodes) are semiconductor lasers which use electrical power as an energy source

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Laser Diode Modules | CW & LD Modules | UV-LWIR

Our CW laser diode (LD) modules include the laser diode with the thermal management and electrical

Dec 26, 2025

48 Laser Diode Manufacturers in 2026

48 Laser Diode Manufacturers in 2026 This section provides an overview for laser diodes as well as their applications and principles.

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Multi-Mode Laser Diodes

Multi-Mode Laser Diodes from the leading manufacturers are listed here. Narrow down on the list of Multi-Mode Laser Diodes by

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The Five Main Types of Lasers | Laserax

Different types of lasers are needed for different applications. Based on their gain medium, lasers are classified into

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