

Finding laser diodes



Overview

Browse a wide selection of in-stock single-mode and high-power multi-mode laser diodes from leading manufacturers such as OSRAM, USHIO, II-VI, and Mitsubishi. Filter by wavelength, output power, and package type to find the right laser diode for your application. Laser diodes, which are capable of converting electrical current into light, are available from Thorlabs with center wavelengths in the 375 - 2000 nm range and output powers from 0. We also offer Quantum Cascade Lasers (QCLs) and Interband Cascade Lasers (ICLs) with center. A laser diode (LD, also injection laser diode or ILD or semiconductor laser or diode laser) is a semiconductor device similar to a light-emitting diode in which a diode pumped directly with electrical current can create lasing conditions at the diode's junction. This article discusses the characteristics common to laser.



Article Content

Mar 13, 2026

Laser Cladding Market by Laser Type (CO2 Laser, Direct Diode Laser ...

Based on Laser Type, technological differentiation across CO2 Laser, Direct Diode Laser, Fiber Laser, and Nd:YAG Laser affects adaptability to specific feedstock forms, energy efficiency,

May 05, 2026

Laser Diodes - Mouser

Laser diodes are available at Mouser Electronics from industry leading manufacturers. Mouser is an authorized distributor for many laser diode manufacturers including ams Osram, KYOCERA AVX,

Oct 26, 2025

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.

Jan 11, 2026

Laser Diodes | Product Search Tool

Laser diodes can emit light beams ranging from the infrared to the UV spectrum. The laser diodes are ideal for fiber-optic communications, CD/DVD reading/recording,

Jul 08, 2025

All the Top Laser Diode Brands & Wavelengths (SHOP

LASER DIODE SOURCE , Wavelengths 370nm to 15,000nm, Shop ALL THE LEADING LASER DIODE BRANDS, Selection Guide & Online Shop

May 05, 2026

RPMC Lasers Home | Pulsed, CW, diode lasers,

RPMC Lasers: Huge selection of Standard & Custom Solid-State Lasers, Diodes & Modules, designed for a variety of markets and applications.

Apr 27, 2026

Laser Diode Selection Guide (ALL MANUFACTURERS)

We try to help our community of laser scientists & engineers find the best products for their projects by hosting a free Open-Index product database with lasers from all manufacturers. Manufacturers can

Jul 17, 2025

Laser Diode Search Engine

Here you will quickly and easily locate a laser diode to meet your specifications. Enter the desired parameters and you will immediately receive an overview of compatible laser diodes from our

Jan 21, 2026

Laser Diodes, Modules | Optoelectronics | DigiKey

Shop DigiKey's large in-stock selection of Laser Diodes, Modules. View inventory, pricing and order now for same day shipping!

Oct 18, 2025

1550 nm laser diode 10 models up to 500mW -SHIPS

The DFB 1550 nm laser diodes can reach high power in nanosecond pulse regime up to 500mW. Most Turn-key diode + driver solutions are optimized from single

Aug 15, 2025

Laser Diodes - semiconductor, gain, index guiding, high

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

Jan 24, 2026

Laser Diode Characteristics, Precautions for Use and Drive Circuit ...

This is a document on the fundamentals of laser diodes explains the characteristics of laser light, package structure, and how to read the characteristics. Examples of laser diode driving circuits and

Dec 23, 2025

808 nm laser diode

Single mode and multi mode fiber coupled 808 nm laser diodes offered as stock items or associated with a CW or pulsed Turn-Key Laser Diode Driver.

Oct 18, 2025

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

Jun 23, 2026

Laser Diode: The Ultimate Beginner's Guide

This is the ultimate beginner's guide to the laser diode. Learn how lasers work and how you can use them in your own projects with this guide.

Oct 09, 2025

Laser Diode Market Size, Share and Opportunities,

Laser Diode Market valuation is estimated to reach US\$ 11.26 billion in 2026 and is anticipated to grow to US\$ 10.12 billion in 2026 with steady CAGR of

Aug 08, 2025

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

Find the right laser diode with just a few clicks. Just select your specifications in the search mask and you get an instant overview of all the laser diodes that meet

Nov 20, 2025

Laser Diodes by Wavelength

We also offer optoelectronics mounts that directly accommodate many of our laser diode package options. The Laser Diode Selection Guide provides a

Oct 21, 2025

Laser diode

OverviewApplicationsTheoryHistoryTypesReliabilityCommon wavelengthsFurther reading

Laser diodes are numerically the most common laser type, with 2004 sales of approximately 733 million units, as compared to 131,000 of other types of lasers. Laser diodes are widely used in telecommunications as easily modulated and easily coupled light sources for fiber-optic communication. They are used in various measuring instruments, such as rangefinders. Another common use is in barcode readers

Feb 19, 2026

Laser Diode Selection Guide (ALL MANUFACTURERS)

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

Sep 26, 2025

Global Distributed Feedback Laser Diode (DFB-LD) Market Growth

The global Distributed Feedback Laser Diode (DFB-LD) market size is predicted to grow from US\$ 3522 million in 2025 to US\$ 5290 million in 2032; it is expected to grow at a CAGR of 6.0%

Mar 19, 2026

Diode Lasers Information

Diode lasers (or laser diodes) are semiconductor lasers which use electrical power as an energy source and doped p-n junctions as a gain medium. As discussed in

Jul 17, 2025

Laser Diode: Working Principle, Construction, Types,

A laser diode is a small semiconductor device that emits powerful and precise light using a process known as stimulated emission. These devices are

Jan 23, 2026

Laser Diodes

Filter by wavelength, output power, and package type to find the right laser diode for your application. Contact us for more information about our services, including laser diode

Jan 01, 2026

Wanted : Industrial Red Laser Diode Module

The buyer would like to receive quotations for - Product Name: Industrial Red Laser Diode Module Specifications: Wavelength: 635nm,650nm Power: 1mW,5mW,10mW,50mW,100mW Diameter:

May 10, 2026

Laser Diode Selector

The laser diode selector allows you to specify the wavelength, power and package and download datasheets for a wide range of high quality laser diodes.

Contact Us

For more information, pricing, or custom solutions, please contact us:

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