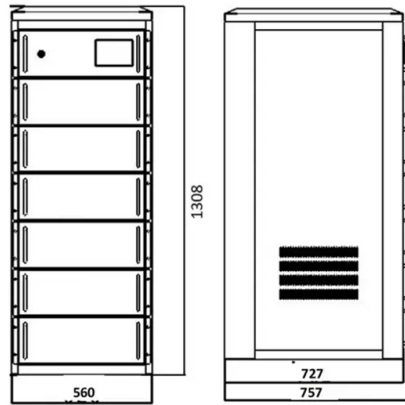


# Laser Receiver Diode Selection



## Overview

Selecting the right laser diode module is an engineering decision that directly impacts system performance, reliability, and long-term operating costs. 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. 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 upload their data sheets free of charge. Whether the application. ProPhotonix has more than 25 years of experience as a supplier and integrator of laser diode technology. This unique expertise means that ProPhotonix can provide you with the technical support you need to select the optimum laser diode for your system as well as advice on other elements of your. 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.



## Article Content

[Laser Diode Basics | Springer Nature Link](#)

Laser diodes find wide applications in optical fiber communications, data recording and reading, sensing and measurements, material processing, etc., because laser diodes can offer wide

[Laser Diode Module Selection Guide](#)

Diode lasers are the most common type of laser and are used in multiple applications due to their small footprint and low cost. We offer Laser Diode Modules with free space or fiber coupled output for

[Laser Diodes - semiconductor, gain, index guiding, high](#)

The single mode laser diodes (either Fabry-Pérot laser diode or DFB laser diode) can reach high power in nanosecond pulse regime up to 500 mW. Most turn-key

[Laser Diodes, Modules | Optoelectronics | DigiKey](#)

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[SHOP Laser Diode Drivers, Pulsed Laser Diode Drivers](#)

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[Laser Diodes, Modules](#)

This Product Selection Guide contains information to help select products in the Laser Diodes, Modules category on DigiKey Laser Diodes and Modules are semiconductor devices

[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

[Diode Lasers Selection Guide: Types, Features,](#)

When selecting diode lasers, it is important to understand the difference between a basic laser diode and a laser diode module. A laser diode is a device identical to

[Laser Diodes: Laser diode operation 101: A user's guide](#)

A laser diode system consists of the laser itself, a laser diode driver, a laser mount, and, for most applications, a temperature controller. Each of these

[Laser Diode Selection Guide \( ALL MANUFACTURERS \)](#)

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

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.

Choosing a Laser Diode Module: 2026 Selection Guide

A 2026 expert guide to selecting laser diode modules. Evaluate wavelength stability, beam divergence, and MTBF for industrial, medical.

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.

Laser Diode Search Engine

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

Lasers 101 - Laser Selection Guide

Welcome to Lasers 101! Selecting a laser source for your application can be overwhelming. There are many types of lasers with various features,

Selection and Use Considerations for Laser Power Photovoltaic Receivers

Selection and Use Considerations for Laser Power Photovoltaic Receivers A primer for the PV user, not the PV expert Some similarities to a solar cell, and some significant differences

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

Laser Diodes, Modulation and Optical Communication

Along with optical fiber and an optical receiver, one of the key components of any optical fiber communication system is the optical transmitter.

LIDAR-Pulsed Time-of-Flight Reference Design Using High-Speed

Figure 6 shows a block diagram of the optical driver and receiver board, which comprises a laser driver, laser diode, collimation and focusing optics, and reference-and-return photodiode receive circuits.

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

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

Laser diodes are very sensitive devices and several precautions must be taken when using these diodes. Among these precautions, the most important include remaining below the

Laser Diode Driver Basics and Design Fundamentals

Laser Diode Driver Basics and Circuit Design Fundamentals Author: Stephen Gwinner  
Updated: August 5, 2024 This TECH-NOTE is intended to give

Laser Diode Drive Circuit Design Method and Spice Model

Laser Diode Drive Circuit Design Method and Spice Model ROHM offers laser diodes (LDs) for Light Detection and Ranging (LiDAR). This application note will introduce ROHM's LD line-up and show

15 Different Types of Diode Lasers

Diode lasers are semiconductor devices that emit coherent and generally narrow monochromatic light through the process of stimulated

## Contact Us

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