

How to purchase laser diodes



AI Overview

Laser diodes can be purchased from specialized electronics distributors or manufacturers, with careful selection based on wavelength, power, and packaging requirements.

Step 1: Understand Your Requirements Before purchasing, define the technical specifications you need:

- Wavelength:** Choose based on your application (e.g., 375–2000 nm for visible/near-infrared, 3–11 μm for QCLs/ICLs).
- Output Power:** Ranges from milliwatts to several watts depending on whether you need low-power emitters or high-power modules.
- Beam Type and Packaging:** Options include TO-can, butterfly, pigtail, or chip-on-submount packages.
- Application Needs:** Consider whether the diode is for spectroscopy, LIDAR, medical therapy, or material processing.

Step 2: Identify Reliable Suppliers Several reputable distributors and suppliers offer laser diodes:

- Mouser Electronics:** Offers a wide selection from manufacturers like ams Osram, KYOCERA AVX, and ROHM Semiconductor, with parametric filtering to narrow down options.
- Thorlabs:** Provides diodes with detailed specifications, including wavelength, power, and package type, along with optoelectronic mounts.
- Farnell Germany:** Stocks a large range of laser diodes from top manufacturers, suitable for European buyers.
- DigiKey:** Offers in-stock laser diodes and modules with same-day shipping and a wide range of power and voltage options.
- RP Photonics Supplier List:** Contains over 100 suppliers and provides guidance on selecting diode lasers for specific applications.

Step 3: Compare Products and Pricing Use parametric filters on distributor websites to compare diodes by wavelength, power, and package type. Check unit pricing and bulk discounts if purchasing multiple units. Consider shipping restrictions or tariffs, especially for international orders.

Step 4: Place Your Order Create an account with the chosen distributor. Add the selected laser diode(s) to your cart and verify specifications. Review shipping options, lead times, and any import/export regulations. Complete the purchase and retain documentation for war...

Article Content

Germany Direct Diode Laser Systems Market Outlook: Growth

The Direct Diode Laser Systems Market is comprehensively segmented based on power output, application, and end-user industry, reflecting the diverse operational requirements across

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Laser diodes are semiconductor devices which convert an injected electrical power into an output of concentrated light at a specific wavelength, coherence and phase. Their fundamental structure is

Laser Diodes Archives

1550nm DFB Laser Diode, 40mW / 60mW (CW / Pulsed), Single Mode & Single Frequency.

LaserPecker | Smart & Portable Laser Engraving Machine

LaserPecker is offering LaserPecker laser engraving and cutting machine for you, with the aim to produce powerful and portable DIY technology and tools!

Laser Diodes by Wavelength

The Laser Diode Selection Guide provides a comprehensive list of all laser diodes available from stock, along with key specifications.

Lasers - Buyer's Guide & Supplier List | RP Photonics

This buyer's guide for lasers provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

Insightful Highlights in Multi-Mode Blue Laser Diode Market Report ...

The "Multi-Mode Blue Laser Diode Market" Insights report offers an in-depth and thorough analysis of the market, covering aspects such as size, shares, revenues, segments, drivers, trends,

OEM Laser Modules - Buyer's Guide & Supplier List

This buyer's guide for OEM laser modules provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

Amazon : Laser Diodes

Laser Diode 20Pcs 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 10PCS 3 Pins KY

Laser diodes and accessories at a favourable price | reichelt elektronik

Overview of high-quality Laser diodes at reichelt elektronik Many brands Reliable delivery Favourable prices Order online now

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Monport Laser 2026 Sale

Don't miss Monport Laser's 2026 Sale! Get exclusive discounts on CO2 laser engravers, fiber lasers, diode lasers, and accessories. Limited-time offers on premium laser machines.

Newest Laser Diodes – Mouser

Laser Diodes are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Laser Diodes.

xTool F2 Ultra Fiber Laser review: Fast metal engraving

The xTool F2 Ultra is a superfast, premium laser that beautifully engraves metal with accurate positioning cameras and comes with good

The Best Laser Hair Growth Caps of 2026, Tested and

Shop the best laser hair growth caps from top brands—and find the right LLLT device for your hair loss needs.

Laser Diodes, Modules | Optoelectronics | DigiKey

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Diode Lasers | Suppliers | Photonics Buyers' Guide | Photonics

Explore 138 top manufacturers and suppliers of Diode Lasers in our comprehensive photonics buyers' guide. A diode laser is a type of laser that uses a semiconductor diode as the active medium to

AtomStack A40 Pro V2 Laser Engraver with F60 Air

Upgrade to the AtomStack A40 Pro V2 Laser Engraver today and experience cutting-edge features like switchable 24W/48W power, ultra-high speeds of

Distributed Feedback Lasers – Buyer's Guide & Suppliers

This buyer's guide for distributed feedback lasers provides technical background, comparison of major types, selection criteria, and an overview of suppliers.

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The M2 combines color printing with laser crafting One machine, many materials
What makes the xTool M2 stand out immediately in the

100mW, 450nm Blue Alignment Laser Diode Module

Violet and Blue Alignment Laser Diodes used in monochromatic and visual-based vision systems and alignment and sensing applications are available at Edmund Optics.

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,

5 Best Laser Cutters & Engravers in July 2026

If you're looking for the best laser engraver, you're in the right place. I've tested and reviewed almost every popular laser engraver and laser cutter out,

Contact Us

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

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