

How to buy genuine 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...

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Laser Diodes - Mouser

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

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zxcvbn-rs/src/frequency_lists.rs at master

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Contact Us

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

Website: <https://energy-powertools.eu>

Email: info@energy-powertools.eu

Phone: +49 172 6389472

Address: Musterstraße 12, 10115 Berlin, Germany

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