

Article Overview

Top laser diode lead manufacturers include Frankfurt Laser Company, OSI Laser Diode, ProPhotonix, ams-OSRAM AG, and Lumentum Operations LLC.

Leading Manufacturers

- o Frankfurt Laser Company (Germany) - Founded in 1994, this company supplies FP, DFB, and DBR laser diodes, along with superluminescent diodes, laser modules, and optics for telecommunications, medical, industrial, and entertainment applications .
- o OSI Laser Diode, Inc. (USA) - Specializes in high-performance laser diodes and modules for industrial, scientific, and medical applications .
- o ProPhotonix (USA) - Established in 1951, ProPhotonix manufactures LED illumination products and laser diode modules used in industrial, medical, and scientific sectors .
- o ams-OSRAM AG (Global) - A leader in optical solutions, offering edge-emitting and VCSEL laser diodes for 3D sensing, automotive lighting, LiDAR, and medical imaging .
- o Lumentum Operations LLC (USA) - Provides diode lasers, VCSEL arrays, and tunable lasers for telecom, 3D sensing, and autonomous vehicle applications .
- o Excelitas Technologies Corp. (USA) - Offers photonic solutions including discrete components, sub-assemblies, and turnkey laser diode systems for clinical diagnostics, autonomous vehicles, and security screening .
- o O/E LAND Inc. and Union Optronics Corp. - Additional manufacturers listed in supplier directories, providing laser diodes for various industrial and optical applications .

Product Types and Packaging

Laser diodes are available in multiple forms, including:

- o Edge-emitting lasers: Standard FP, DFB, and DBR diodes for telecom and sensing.
- o VCSELs (Vertical-Cavity Surface-Emitting Lasers): Low-power, circular beams for datacom and sensing arrays.
- o Diode bars and stacks: High-power linear arrays for industrial processing.
- o TO-can, Butterfly, and Chip-on-submount packages: Hermetically sealed or open packages for integration and heat management .

Applications

Laser diodes are widely used in:

- o Optical communication and fiber networks
- o Barcode readers, optical drives (CD/DVD/BD)
- o Industrial laser processing and welding
- o Medical therapy and diagnostics
- o LIDAR, 3D sensing, and autonomous vehicle sensors

Distribution

Authorized distributors like Mouser Electronics provide access to laser diodes from leading manufacturers such as ams-OSRAM, KYOCERA AVX, and ROHM Semiconductor, offering datasheets, pricing, and inventory for various applications . This list provides a solid starting point for sourcing laser diode leads and modules from reputable global manufacturers.

Laser Diodes Semiconductor lasers are opto devices often referred to as laser diodes or LDs. ROHM is the industry's largest

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Laser Diodes from the leading manufacturers are listed below. Use the filters to narrow down on products based on your

ProPhotonix designs and manufactures easy to use, plug and play laser diode modules for a wide range of

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This section provides an overview for laser diodes as well as their applications and principles. Also, please take a look at the list of

Laser diodes are available at Mouser Electronics from industry leading manufacturers. Mouser is an authorized distributor for many

Spectrum of infinite possibilities. ams OSRAM is offering a unique portfolio of semiconductor lasers. Whether visible or infrared, edge

Laserland is a supplier and manufacturer of laser diode modules, laser modules, laser diodes, laser pointer, laser safety glasses,



Laser Diode Lead Manufacturers

LED Manufacturers 163 LED manufacturers listed. An LED, or light-emitting diode, is a semiconductor device that produces light due

Find your laser diode easily amongst the 84 products from the leading brands (OVIO INSTRUMENTS,

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Laser Diode Market Size & Share Analysis - Growth Trends and Forecast (2026 - 2031) The Laser Diode Market

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