

Article Overview

Several leading laser diode manufacturers offer four-leaded (multi-pin) laser diodes, including Frankfurt Laser Company, Sheumann Laser, and ProPhotonix.

Key Manufacturers

Frankfurt Laser Company (FLC) - Based in Friedrichsdorf, Germany, FLC supplies a wide range of laser diodes including FP, DFB, DBR, VCSELs, and Quantum Cascade lasers. They offer custom packaging options such as TO-can and butterfly packages, which can accommodate four-lead configurations for precise electrical connections and thermal management . Sheumann Laser, Inc. - Located in St. Billerica, Massachusetts, USA, Sheumann manufactures single-mode and multimode continuous wave (CW) diode lasers with output powers up to 30 W. Their product line includes TO-can and butterfly packages with multiple leads, suitable for medical, industrial, defense, and space applications. They also provide in-house wafer growth, processing, and packaging for customized four-lead solutions . ProPhotonix - Headquartered in Massachusetts, USA, ProPhotonix produces laser diode modules and LED illumination products. They offer modular and packaged laser diodes that can be configured with multiple leads for industrial, medical, and scientific applications . TRUMPF - From their New Jersey, USA facility, TRUMPF manufactures single-emitter and diode bar laser diodes, including modules designed for demanding environments such as automotive LiDAR. Their diode packages can include multiple leads for integration into fiber-coupled or solid-state laser systems .

Packaging Options for Four-Leaded Diodes

- o TO-can: Hermetically sealed metal cans with four leads for electrical connection and heat dissipation. Common for low- to medium-power diodes.
- o Butterfly: High-performance packages with integrated thermoelectric coolers (TEC) and fiber pigtails, often with four or more leads for precise control.
- o Chip-on-submount (CoS) / C-Mount: Open packages with multiple leads for easy integration and external cooling.

Considerations

When selecting a four-leaded laser diode, consider:

- o Wavelength and power requirements: Ensure the diode meets your optical specifications.
- o Package type: TO-can or butterfly packages affect thermal management and integration.
- o Customization: Some manufacturers, like Sheumann and FLC, offer custom lead configurations and packaging.



Four-Legged Laser Diode Manufacturer

o Application: Industrial, medical, or scientific use may require specific reliability and environmental ratings. These manufacturers provide reliable options for four-legged laser diodes suitable for a wide range of applications, from laboratory research to industrial laser systems .

4 Pin Diode with Different Wavelengths and Output Powers 4 leg diode 850nm or 1550nm Diode with 4

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Laser Diode Manufacturers ProPhotonix distributes Ushio, Osram, QSI and Ondax semiconductor laser

A Laser Diode is a type of semiconductor device that produces coherent light through the process of stimulated emission. The

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