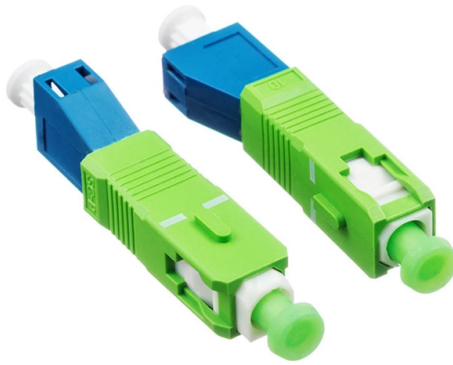


Laser Diode Packaging Companies



Article Overview

Leading laser diode packaging manufacturers include ALTER, Finetech, LaseOptics, and TRUMPF, offering custom and standard module solutions for diverse photonics and industrial applications.

Key Manufacturers and Capabilities

ALTER specializes in custom laser diode modules with in-house assembly and testing. They provide a wide range of packaging platforms, including single-mode diode lasers, collimated VCSELs, and hermetic PIC packages. Their modules feature integrated thermal management via thermoelectric coolers and thermistors, and they support both prototype and volume production with space-qualified reliability standards. Finetech focuses on high-precision assembly for multi-emitter laser modules. They provide automatic die bonder systems and self-aligning placement tools to ensure micrometer-level alignment of edge-emitting laser diodes on submounts. Their process includes eutectic gold-tin soldering and multi-axis compensation for optimal power output and stability. LaseOptics offers custom 9mm laser diode packages with various wavelengths and power levels, suitable for applications such as currency authentication, telecom, biomedical, and defense. They also provide fiber optic solutions, lensed fibers, and tapered fibers for integration with laser modules. TRUMPF provides vertically integrated laser diode manufacturing, including single-emitter diodes, diode bars, and pump modules. Their products cover wavelengths from 790 nm to 1100 nm and are designed for industrial, scientific, automotive LiDAR, and additive manufacturing applications. TRUMPF offers modules with high reliability, thermal management, and options for vertical stacks and multi-kW arrays

Article Content

Laser Diode Packaging for Multi-Emitter Module Assembly

A self-aligning placement tool for laser diodes developed by Finetech is used to align the component

Laser Packaging

Laser diodes have been developed to match the absorption bands of a variety of dielectric crystals in a broad wavelength range.

Laser Diode Chips

Minimum orders for established designs start at 50 pieces, while custom designs require a non-recurring engineering (NRE) fee. We

Photonics

ALTER stands at the forefront of photonics, offering a spectrum of cutting-edge services. Our expertise spans PICs,

Advanced Packaging Equipment and Wafer Level Bumping Services

Leading supplier of Advanced Packaging Equipment and Wafer Level Bumping and Packaging Services with customers around the

Hermetic and reliable packaging of single-emitter laser diode chips in ...

The laser diode is mounted into this package on a pillar, located approximately in the middle of the header. In

Advances in High-Power Laser Diode Packaging

During the bonding process, excessively-induced bonding stress causes the parametric performances of the laser diode to change.

Laser Diode Packaging for Multi-Emitter Module Assembly

Enable laser diode packaging with automated die bonding. Achieve sub-micron placement, reliable

TRUMPF Photonics Inc.

TRUMPF Photonics specializes in the development and manufacturing of semiconductor laser diodes, laser modules, and coatings

48 Laser Diode Manufacturers in 2026

48 Laser Diode Manufacturers in 2026 This section provides an overview for laser diodes as well as their applications and principles.

Laser-based packaging

Processes such as laser soldering, glass solder bonding, laser beam bonding for transparent and metallic materials or microwelding

48 Laser Diode Manufacturers in 2026

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 diode modules

With a long history as a packaging company, ALTER has the advantage of in-house capabilities for laser diode

GaN Laser Diodes – BluGlass

BluGlass offers GaN lasers to the industrial, defence, quantum, scientific, biotech and display markets. Our full suite, end-to-end

Laser Diode Packaging Materials | Suppliers

Explore 13 top manufacturers and suppliers of Laser Diode Packaging Materials in our comprehensive photonics buyers' guide.

Laser Diode Manufacturers

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

Understanding of Laser, Laser diodes, Laser diode packaging and its ...

Imaging the laser diode as a pizza, the packaging mount serves the purpose of pizza box that holds the pizza inside. Additionally, the

Laser Diode & Optical Component Packaging Requirements

This results in consistent heat transfer from the laser diode and contributes significantly to temperature stabilization

Laser Diodes, Modules | Optoelectronics | DigiKey

Shop DigiKey's large in-stock selection of Laser Diodes, Modules. View inventory, pricing and order now

Laser Diode Packages

Laser Diode Bar Subunits diode package types. This allows for all package types to achieve a range of output powers and operating

Laser Diode Chips

We produce a comprehensive range of premium laser diode chips for diverse application scenarios, utilizing state-of-the-art quantum

Understanding Lasers, Laser Diodes, Laser Diode Packaging

To protect laser diode materials or any laser devices from mechanical and thermal stress, because the laser material,

Packaging diode laser arrays. Why and how

The interface material chosen for soldering purposes must have a melting temperature well below the melting points of both the laser

Contact Us

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

Website: <https://www.sdesign.net.pl>

Email: sales@sdesign.net.pl

Phone: +48 694 237 815

Address: ul. Marszałkowska 10, 00-001 Warsaw, Poland

This document is for informational purposes only. Specifications subject to change without notice.

