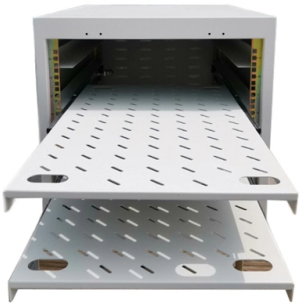
Custom laser diodes supplied directly from the manufacturer



Overview

Custom High-Power Multimode Laser Diode Solutions | LDX OptronicsWe provided the wavelength needed, developed the lensing specification that met the custom.

Key Takeaways

Custom laser diodes can be sourced directly from manufacturers like LDX Optronics, BU-LASER, TRUMPF, and via GoPhotonics for tailored specifications, packaging, and high-reliability applications.Leading Manufacturers and Solutions

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LDX Optronics specializes in high-power multimode laser diodes with wavelengths ranging from 405 nm to 1900 nm. They offer US-made solutions with advanced packaging, lensing, fiber coupling, TEC integration, and flux/void-free soldering for superior thermal performance and long-term reliability. LDX provides tailored solutions including custom wavelength, power, and packaging, along with just-in-time delivery and lifetime supply options, making them suitable for industrial, medical, defense, and space applications . BU-LASER provides custom laser diode modules and fiber-coupled lasers with wavelengths from 375 nm to 980 nm. They serve industries such as 3D scanning, medical beauty, laser security, and laser engraving. BU-LASER offers OEM/ODM services, ensuring each module is designed to meet specific customer requirements, backed by over 15 years of experience and 80+ patents . TRUMPF manufactures laser diodes and pump modules from their vertically integrated facility in New Jersey, USA. They supply single-emitter diodes, diode bars, and mounted chips for industrial, additive manufacturing, and scientific applications. TRUMPF offers wavelengths from 790 nm to 1100 nm, with options for high-power modules (100 W to 600 W) and multi-kW stack arrays, emphasizing high reliability and specialized packaging for harsh environments . GoPhotonics acts as a platform to request quotations from multiple manufacturers simultaneously. Users can submit specifications and supporting files, then select up to five manufacturers to receive direct quotes, streamlining the process of sourcing custom laser diodes .

Customization Capabilities

Manufacturers can provide:

• Specific wavelengths and power levels tailored to your application

• Hermetically sealed packages for environmental protection

• Integrated TECs and photodiodes for thermal and optical stability

• Fiber coupling and lensing options for precise beam shaping

• High-reliability soldering and packaging for industrial or medical use
Considerations for Direct Manufacturer Supply
• Lead times and production volumes: Some manufacturers can scale from prototype to high-volume production.

• Technical support: Direct manufacturer engagement ensures design assistance and quality control.

• Regulatory compliance: Especially important for medical, defense, or aerospace applications.

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• US-made vs. international supply: US-based manufacturers like LDX and TRUMPF offer secure supply chains and reduced risk of tariffs or delays. By contacting these manufacturers directly or using platforms like GoPhotonics, you can obtain custom laser diodes that meet precise specifications, high reliability, and tailored packaging for your specific application needs .

Article Content

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LDX Optronics | US-Made High-Power Multimode Laser Diodes

LDX Optronics: High-power multimode laser diodes (405–1900 nm). 35+ years, US-made, dedicated cleanroom facility. Flux/void

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High power diode lasers are at the heart of almost every solid state, alkali, and fiber laser systems. AKELA

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Custom Services available are: wavelength sorting, consulting, R&D, design work, & manufacturing of your product. US-Lasers, Inc.,

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A Laser Diode or semiconductor laser is the simplest form of Solid-State Laser. Laser diodes are

Laser Diodes Manufacturers and Suppliers in the USA and Canada

Manufacturer of standard and custom laser diodes. Types include high precision, machine vision, blue, diode-pumped

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Laser Diodes

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Laser Diode Manufacturers

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Leading Laser Diode Manufacturer | Custom Solutions & Global

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