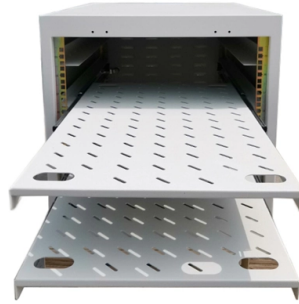


Custom laser diodes supplied directly from the manufacturer



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



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.

- 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

Custom High-Power Multimode Laser Diode Solutions | LDX Optronics

We provided the wavelength needed, developed the lensing specification that met the customer's needs, and provide the laser diode,

Custom Laser Diodes

Get Quotations on your custom Laser Diode requirement from multiple manufacturers via GoPhotonics. Enter your requirements,

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

Custom Laser Diodes | Cost-effective Custom Diode lasers | RPMC

With nearly 30 years of experience providing the right laser at the best price, RPMC has the partnerships & technical knowledge to

High-Power Laser Diodes | Trusted Laser Diodes

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

U.S.Lasers

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

Laser Diodes | Components to Systems | UV-LWIR

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

Custom Laser Diodes

Custom Laser Diode Requirement Get Quotations on your custom Laser Diode requirement from multiple manufacturers via

Laser Diode Modules | Suppliers

Since 1969, Power Technology, Inc. has innovated in laser technology, offering modules for diverse fields like semiconductor

U.S.Lasers

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

UKBlanks LTD

The UK's number 1 laser engraving blank supplier - we offer a wide variety of blank laser engravable, perfect for special occasions.

FLC

FLC - Frankfurt Laser Company GmbH is a world-leading supplier of FP, DFB, and DBR laser diodes, SM

Laser Diode Manufacturers & Suppliers | ProPhotonix

High quality laser diode manufacturers including brands like Osram, Ushio, QSI and Ondax. Click to

Diode Lasers | Suppliers | Photonics Buyers' Guide | Photonics Marketplace

High-power laser diode manufacturer specializing in laser assemblies in any combination of the light source, optics, cooling, and

Laser Diodes

Leonardo is a manufacturer of laser diode components & systems for aesthetics, advanced targeting, directed energy, materials

High-Power Laser Diodes | Trusted Laser Diodes

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

U.S.Lasers

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

Laser Diodes | Components to Systems | UV-LWIR

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

Custom Laser Diodes

Custom Laser Diode Requirement Get Quotations on your custom Laser Diode requirement from multiple manufacturers via

Laser Diode Modules | Suppliers

Since 1969, Power Technology, Inc. has innovated in laser technology, offering modules for diverse fields like semiconductor

Laser Diodes - Buyer's Guide & Supplier List | RP Photonics

This buyer's guide for laser diodes provides technical background, comparison of major types, selection criteria, and an overview of

Laser Diode Manufacturers

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

High Power Laser Diodes Manufacturers and Suppliers in the

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

All the Top Laser Diode Brands & Wavelengths (SHOP

Manufacturer's set their own direct pricing on our platform. To ensure that you are getting the lowest price, all of the prices on our site

U.S.Lasers

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

UKBlanks LTD

The UK's number 1 laser engraving blank supplier - we offer a wide variety of blank laser engravable, perfect for special occasions.

FLC

FLC - Frankfurt Laser Company GmbH is a world-leading supplier of FP, DFB, and DBR laser diodes, SM individually addressable

Custom High-Power Multimode Laser Diode Solutions | LDX Optronics

We provided the wavelength needed, developed the lensing specification that met the customer's needs, and provide the laser diode,

Custom Laser Diodes

Get Quotations on your custom Laser Diode requirement from multiple manufacturers via GoPhotonics. Enter your requirements,

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

Custom Laser Diodes | Cost-effective Custom Diode lasers | RPMC

With nearly 30 years of experience providing the right laser at the best price, RPMC has the partnerships & technical knowledge to

Laser Diodes

CEO's diode engineers are highly experienced in custom designs for specialized pumping and direct diode applications. We can

Laser Diodes Manufacturers and Suppliers in the USA and Canada

Custom manufacturer of wavelength-stabilized laser diodes and optical components. Products include diode-pumped

RPMC Lasers Home | Pulsed, CW, diode lasers, standard, custom

RPMC Lasers: Huge selection of Standard & Custom Solid-State Lasers, Diodes & Modules, designed for a variety of markets and

Laser Diode Module Manufacturer | Custom Laser Solutions

Our laser diode modules are recognized globally for their high performance, and our OEM/ODM services ensure that

Diode Lasers | Suppliers | Photonics Buyers' Guide | Photonics

Produces laser modules and distributes laser diodes from manufacturers for industrial OEMs, medical, and defense markets.

Leading Laser Diode Manufacturer | Custom Solutions & Global

Discover premium laser diode manufacturers offering 650nm-1064nm wavelengths for medical, industrial, and beauty

Custom High-Power Multimode Laser Diode Solutions | LDX Optronics

We provided the wavelength needed, developed the lensing specification that met the customer's needs, and provide the laser diode,

Custom Laser Diodes

Get Quotations on your custom Laser Diode requirement from multiple manufacturers via GoPhotonics. Enter your requirements,

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

Custom Laser Diodes | Cost-effective Custom Diode lasers | RPMC

With nearly 30 years of experience providing the right laser at the best price, RPMC has the partnerships & technical knowledge to

Laser Diodes

CEO's diode engineers are highly experienced in custom designs for specialized pumping and direct diode applications. We can

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

Contact Us

Continue your research online:

Website: <https://alfa-pro.co.za>

Technical inquiry: <https://alfa-pro.co.za/contact.html>

This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

