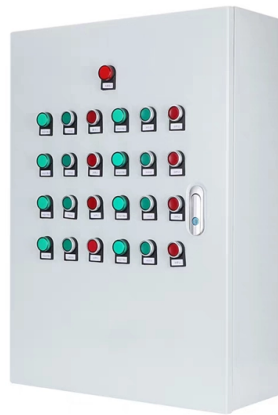


How much does it cost to customize a laser diode



AI Overview

Custom laser diode prices vary widely, from a few dollars for low-power standard diodes to several thousand dollars for high-power or highly specialized custom designs.

Price Ranges by Type and Package

- Standard Low-Power Diodes:** Basic red or infrared diodes in TO-can or small metal packages can cost \$5–\$50 per unit depending on wavelength and power output.
- High-Power Diodes:** Fiber-coupled or multi-emitter modules for industrial or medical applications typically range from \$600 to \$4,500 for butterfly packages, with prices increasing for integrated cooling, photodiodes, or TEC control.
- Bare Chips and Open Heat Sink:** Bare laser diode chips or open heat sink types range from \$10–\$1,000, depending on power and complexity.
- Custom Laser Diodes:** Fully tailored solutions, including specific wavelengths, beam shaping, ruggedized packaging, or high-power bars, are priced individually. Costs depend on design complexity, output power, and quantity, often requiring a non-recurring engineering (NRE) fee for custom fabrication.

Factors Affecting Price

- Wavelength:** Common wavelengths for consumer electronics (e.g., 630–670 nm red) are cheaper due to high-volume production, while specialized wavelengths for biomedical or industrial applications can be significantly more expensive.
- Output Power:** Higher power diodes increase cost, especially for multi-emitter arrays or bars. Prices can vary by more than 50% between manufacturers for the same power level.
- Package Type:** TO-can packages are generally the most affordable, while butterfly or fiber-coupled packages with integrated TEC and photodiodes are more expensive.
- Spectral Properties:** Narrow linewidth, single-mode, or DFB/DBR diodes command higher prices due to precision fabrication requirements.
- Quantity:** Bulk orders reduce per-unit cost, while single-unit purchases or low-volume custom orders are more ex...

Article Content

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Laser Hair Removal in Seattle Costs \$99 at Seattle Plastic Surgery SEATTLE, WA / ACCESS Newswire / July 8, 2026 / The price of laser hair removal in Seattle can vary significantly

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Pricing Guide for Buying Laser Diodes

IntroductionHow Does The Wavelength Affect The Price of A Laser diode?How Do The Spectral Properties Affect The Price?Fabry-Perot Laser DiodesDFB, DBR and ECL Single Frequency Laser DiodesNarrow Spectral Linewidth Laser DiodesHow Does The Package Type Affect Price?Bare Laser Diode Chips and Coc Devices (\$10~\$500)Open Heat Sink Laser Diodes (Range Is Approximately \$50 ~ \$1,000)Butterfly Packaged Laser Diodes (Range Is Approximately \$600 ~ \$4,500)Semiconductor laser diodes range widely in price based on a few key parameters. The wavelength, power, spectral qualities, package type, cavity type and quantity will all have an effect on the price. You can buy a laser diode for less than a dollar. But the price can also be in the tens of thousands of dollars just by changing several paramaters. T...See more on laserdiodesource worldstartech

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price list

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CHIP-650-P10, 650 nm, 10 mW, laser diode chip, sm (no guarantee on bare dies!)

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Contact Us

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