

## Article Overview

The price of a 200G laser diode can vary widely, typically ranging from a few hundred to several thousand dollars depending on specifications and application.

## Pricing Overview

Laser diode prices are influenced by several factors including output power, wavelength, spectral properties, package type, and production volume. For example, consumer-grade red laser diodes (630-670 nm) can cost less than \$1, while high-power or specialty diodes for telecommunications or biomedical applications can reach tens of thousands of dollars . A 200G laser diode, often used in high-speed optical communications, falls into the specialty category, so expect prices in the hundreds to thousands of USD per unit .

## Supplier Options

- o Mouser Electronics and DigiKey offer a wide selection of laser diodes from manufacturers like Osram, ROHM, and KYOCERA AVX, with pricing dependent on quantity and specifications .
- o Amazon lists lower-power diodes (e.g., 200 mW) for hobbyist or small-scale applications, typically under \$50, but these are not suitable for high-speed 200G telecom applications .
- o Roithner Laser provides a detailed price list for various wavelengths and powers, which can help estimate costs for specialized diodes .

## Key Considerations

- o Wavelength and Modulation Speed: High-speed 200G diodes often operate in the near-infrared range (e.g., 1310 nm or 1550 nm) and require precise spectral properties, increasing cost.
- o Power Output: Higher optical power increases price.
- o Package Type: Single-mode, DFB (Distributed Feedback), or DBR (Distributed Bragg Reflector) diodes are more expensive than basic Fabry-Perot diodes.
- o Quantity: Bulk orders reduce unit cost, while single-unit purchases are more expensive.

## Estimated Price Range

- o Low-end / hobbyist diodes: \$20-\$100
- o Telecom-grade 200G diodes: \$500-\$3,000+ per unit depending on manufacturer and specifications For precise pricing, it is recommended to contact distributors like Mouser or DigiKey with the exact specifications of the 200G laser diode required.



## Find price laser diode 200G

We also offer optoelectronics mounts that directly accommodate many of our laser diode package options. The Laser Diode

The Laser Diode Selection Guide provides a comprehensive list of all laser diodes available from stock, along with key specifications.

The laser diode selector allows you to specify the wavelength, power and package and download

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