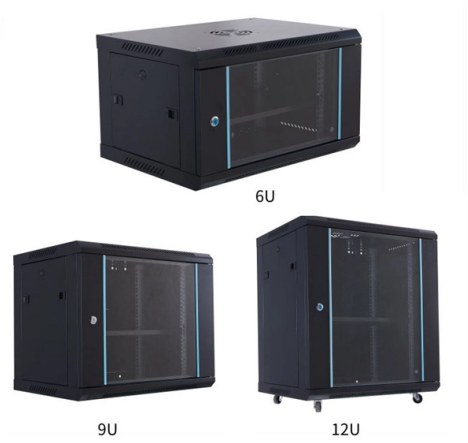
How much does a 2-watt laser diode cost



Overview

The LU0808T020 offers optical power up to 2 watts from a 50 µm core, NA 0.12 multi-mode fiber coupled module.

Key Takeaways

A 2-watt laser diode typically costs between $50 and $200, depending on wavelength, quality, and application.

Price Range and Factors

The cost of a 2-watt laser diode varies widely based on several factors: Wavelength and Type: Consumer-grade diodes, such as 450nm blue lasers, are generally cheaper due to high-volume production, while specialized wavelengths for scientific or medical applications can be significantly more expensive. Quality and Durability: Professional-grade diodes with robust construction, thermal management, and precise output control cost more than basic hobbyist models. Package and Features: Diodes with integrated cooling, IR filters, or advanced driver assemblies may increase the price.

Examples of Current PricesConsumer/Handheld Models: High-quality 2W blue laser pointers are available for under $200, often including safety features like IR filters and goggles.

Professional/

Scientific Diodes: Semiconductor laser diodes with precise specifications for lab or industrial use can range higher, sometimes several hundred dollars, depending on wavelength, spectral properties, and packaging.

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Summary

For most hobbyist or general-purpose applications, a 2-watt laser diode can be purchased for $50–$200, while specialized or high-precision diodes for medical, industrial, or research use may cost more. When selecting a diode, consider wavelength, cooling, durability, and safety features to ensure it meets your intended application.

Article Content

price list

CHIP-650-P5, 650 nm, 5 mW, laser diode chip, sm (no guarantee on bare dies!)
CHIP-650-P10, 650 nm, 10 mW, laser diode chip, sm (no guarantee on bare dies!)
CHIP-650-P30, 650 nm, 30 mW, laser

2W Laser Diodes for sale | eBay

SALE!!! M140 M-Type Laser Diode · 445nm · 5.6mm · 2W · 2-Watt Blue Beam · TO-18 Pre-Owned $12.95 Buy It Now

808nm Laser Diode, 2W Output Power

The LU0808T020 offers optical power up to 2 watts from a 50 µm core, NA 0.12 multi-mode fiber coupled module. These 808nm laser diodes offers a very competitive price-performance value for

Laser Diodes, Modules | Optoelectronics | DigiKey

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Laser Diodes by Wavelength

Laser diodes, which are capable of converting electrical current into light, are available from Thorlabs with center wavelengths in the 375 - 2000 nm range and output powers from 0.2 mW up to 2 W.

Laser Diodes – Mouser

Laser Diodes are available at Mouser Electronics. Mouser offers inventory, pricing, & datasheets for Laser Diodes.

2 Watt Laser Diode

Shop high-quality 2 watt laser diodes for various applications. Find reliable, powerful, and efficient diodes from top suppliers. Perfect for your needs.

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Laser Engraving Settings Guide: Wood, Acrylic,

Get recommended laser engraving speed and power settings for wood, acrylic, leather, and metal. Includes CO2, fiber, and diode laser charts

xTool F2 Ultra Fiber Laser review: Fast metal engraving in color

The xTool F2 Ultra is a superfast, premium laser that beautifully engraves metal with accurate positioning cameras and comes with good software to run it. The 60-watt MOPA and 40

The Gear Page

Join a vibrant community of musicians and gear enthusiasts discussing instruments, effects, setups, and more on The Gear Page forum.

Pricing Guide for Buying Laser Diodes

HOW MUCH DO LASER DIODES COST? Learn how wavelength, power, package & cavity type determine the cost of a laser diode Introduction: Semiconductor

LaserPecker LP4 Review: Etch Metal and Wood for a Price

The LaserPecker LP4 is equipped with both a 2-watt Infrared laser for engraving metal and plastic, and a 10 watt blue Diode laser to cut soft woods up to 8mm thick and dark acrylic up to

Where to buy a >2 watt laser diode on the cheap?

I''ve bought 1 watt diodes off ebay but I''m looking for a little bit more power. I found these Amazon : HIGH POWER Burning Cutting Laser Diode 2w 9mm 808nm: Electronics but I''m a

10W Lasers from All Leading Brands

This commercial class of laser is manufactured in high volume and offers a relatively low cost per watt (relative to other 10 watt laser techologies). For example, a fiber-coupled 10W laser

How to Get Industrial-Grade Marks from a 20W Diode

A 20W diode laser only delivers industrial-quality marks when beam collimation, thermal management, and material-specific settings are treated as one system. By keeping the diode cool,

NDB7875 2W+ 445nm Blue Laser Diode 9mm TO-5 ~ Engraving Lasers

2W+ ~ NDB7875 LASER DIODE ~ 450nm ~ 9mm ~ TO-5 ~ 2-WATT * 2-Watt+ CW Output * 9mm / TO-5 Laser Diode * 2 Amp Constant Current Driver Required * Heatsink Required * Laser Safety

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1550nm, 2 Watt, Broad Spectrum Laser, QPC Laser Operations

1550nm, 2W, Spectrally Broadened Fiber Coupled Laser Diode Module QPC Lasers proprietary BrightLase® semiconductor laser technology achieves a broad spectrum output from a monolithic

How Much Does a Laser Diode Cost? Find Out Now | CIELLULU

If you''ve ever wondered "how much does a laser diode cost," our comprehensive article outlines price factors and trends in the industry. Navigate your purchasing decisions with ease and confidence,

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

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