

Laser Green Diode



Article Overview

Green laser diodes emit light in the 510–530 nm range, offering high visibility and efficiency for a wide range of applications.

Wavelength and Visibility

Green laser diodes typically operate between 510 nm and 530 nm, a range where the human eye is most sensitive, making them appear brighter than other colors at the same power level. This high visibility is particularly advantageous for laser pointers, measurement devices, and optical alignment.

Power and Efficiency

Modern green laser diodes can achieve output powers up to 120 mW in compact packages like TO33 and TO56, often including features such as photo-monitor diodes or automatic power control for stable operation. InGaN-based green diodes can operate at temperatures up to 85°C without active cooling, delivering long lifetimes of up to 10,000 hours at 40°C. Their high efficiency minimizes heat generation, making them suitable for compact systems like pico projectors.

Types and Technology

Green lasers are available in continuous-wave (CW), pulsed, and diode-pumped solid-state (DPSS) configurations. While DPSS lasers (commonly 532 nm) use frequency doubling of infrared lasers, direct green diodes provide smaller, more efficient, and thermally stable solutions. Recent GaN technology has enabled diodes in the 505–5...

Article Content

Osram Laser Diodes

Osram Laser Diodes which come in green and blue, are ideally suited to range of targeting, alignment and medical applications.

High Power Visible Laser Diodes – Green

Our selection of High-Powered Visible Diode Lasers offers a few key features including: High efficiency and long lifetime. Wide

Green Diode Laser

Use the Green Diode Laser with PASCO's Red Diode Laser to demonstrate the effect of changing wavelength on the diffraction and

532nm Green DPSS Lasers, 532nm Green Laser Modules | Berlinlasers

532nm series green Diode-Pumped Solid-State (DPSS) lasers are available in various types of green laser pointers, green dot, line,

GaN-based green laser diodes

Recently, many groups have focused on the development of GaN-based green LDs to meet the demand for laser display. Great

Diode Green Lasers (Part 1, Wavelength and Efficiency)

Today's blog is the first in a series about green lasers, and in particular about how wavelength, power, efficiency, and

Laser diode

The laser diode chip removed and placed on the eye of a needle for scale A laser diode with the case cut away. The laser diode chip

Green lasers | 500-559nm, pulsed CW & diode lasers | shop RPMC

Shop RPMC's Green Lasers: 500-559nm, high brightness & visibility in sunlight, efficient light-matter interactions, wide range of

Direct Green Laser Diodes

OSRAM Opto Semiconductors is one of the first worldwide leading suppliers of direct green laser diodes. Mounted in a tiny TO38cut

Green Laser Diodes – Mouser India

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

520nm Green Diode Lasers, Green Laser Modules | Berlinlasers

520nm green lasers get featured advantages of direct diode emission and high stability green laser source emission. It gets less

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: <https://www.gmarkconstruction.co.za>

Email: sales@gmarkconstruction.co.za

Phone: +31-6-15-38-72-94

Address: Herengracht 456, 1017 BS Amsterdam, Netherlands

This document is for informational purposes only. Specifications subject to change without notice.

