

Laser diode small green light



Overview

CW Laser Diodes (green) Find the right laser diode with just a few clicks. Just select your specifications in Laser Diodes, Modules | Optoelectronics | Digi.

Key Takeaways

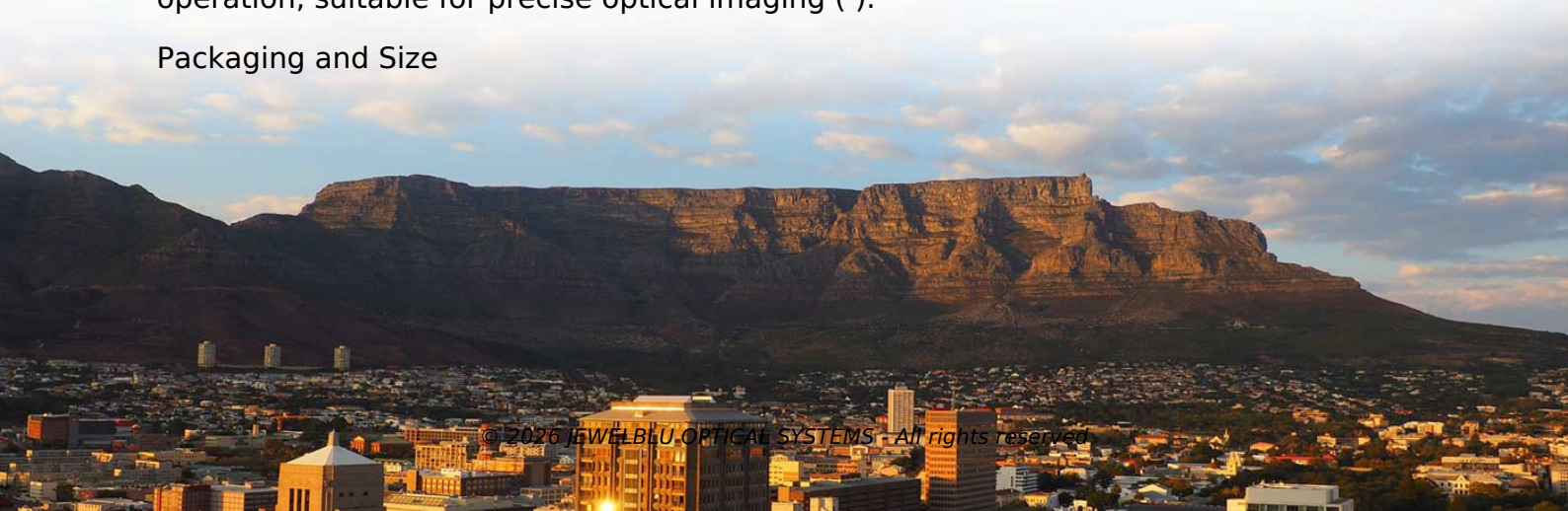
Small green laser diodes typically emit light in the 510–530 nm range, are highly visible to the human eye, and are available in compact packages suitable for optical and measurement applications. Wavelength and Visibility

Green laser diodes emit light in the 510–530 nm range, which is the wavelength most sensitive to the human eye, making them appear brighter than red or blue lasers at the same power level (). This high visibility is advantageous for laser pointers, measurement devices, and optical alignment tools.

Power and Efficiency

Small green laser diodes can deliver output powers up to 120 mW in continuous-wave (CW) operation (). Modern InGaN (Indium Gallium Nitride) green lasers are highly efficient, producing minimal heat and maintaining long lifetimes of up to 10,000 hours at 40°C (). Some high-power versions can reach up to 110 mW in single-mode operation, suitable for precise optical imaging ().

Packaging and Size



These diodes are available in compact TO33 and TO56 housings, often with integrated photodiodes or automatic power control for easy monitoring and adjustment (). Their small size makes them ideal for pico projectors, compact optical systems, and portable devices ().

Applications

Small green laser diodes are used in a variety of applications, including:

- Laser pointers and presentation tools due to high visibility ()
- Measurement and alignment systems where a bright, precise dot is required ()
- Optical imaging and projection in compact devices ()
- Industrial marking and cutting when combined with pulsed operation ()
- Scientific applications such as Raman spectroscopy and fluorescence excitation ()

Safety Considerations

Even small green laser diodes can be hazardous to the eyes. Proper laser safety goggles and adherence to laser class regulations are recommended when operating these devices. In summary, small green laser diodes are compact, highly visible, and efficient light sources suitable for both consumer and industrial applications, with wavelengths optimized for human eye sensitivity and output powers sufficient for precise optical tasks ().

Article Content

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Mini Green Laser Light 515nm 520nm 5mw Green

Laser power: 5mW. Irradiation Distance 8M. Working mode: spotted spot. Working

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515nm 520nm green laser module is a laser diode laser module which don't have 808nm as its light source. The color and 515nm

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12V Green Diode Lasers 532nm Laser Module Dot with TTL 0-30KHZ

Storage Temperature: -10 ° C to +40 ° C Structure: laser diode + lens + cooling
Housing Laser Module Size: 74x30x30mm Circuit

532nm Green Module GM532-30 Green Diode Line

532nm Green Laser is made by 808nm Laser Diode plus Crystal lens to transfer Green Light, it needs

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About this item 5V 650nm 5mW Red Dot Diode Laser Head Red Laser Diode 6mm Red Laser Diode Laser

520nm Green Dot Diode Module adjustable focus 5mw | 510nm

About this item Direct Diode 3V 3.7V 520nm Green DOT Laser Module Wave length: 520nm. Output power: Class IIIa - less than

Green Module Diode Line 532nm (Green Line) 5mw 12mm DC3-3.7V

About this item 5mw Green Laser Moudle Green Laser Dot Sight 532nm Laser Line Beam light Laser Diver Board 3V Laser High

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Projection Direct green laser diodes are an important step toward powerful embedded projectors. The laborious way of producing

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Green Diode Laser

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Compact 532nm green laser module

The 532nm green Diode Pumped Solid State laser module is a continuous wave laser module. The green laser module is compact in

Laser Diode

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0.3~1.8m working distance, VLM-520-28 LPT -

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