

# What does 400nm laser diode mean

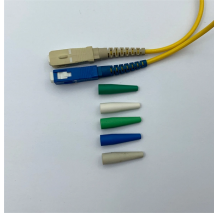


## Overview

With a wavelength at 400nm, this module is made to produce a long coherent length, stable wavelength with long lifetime and easy operating, which is widely used in holography, interference, fluorescence, photoetching, flow cytometry, DNA sequencing, Raman spectroscopy . With a wavelength at 400nm, this module is made to produce a long coherent length, stable wavelength with long lifetime and easy operating, which is widely used in holography, interference, fluorescence, photoetching, flow cytometry, DNA sequencing, Raman spectroscopy . Long coherent length diode laser module from CNI Laser. SEM (scanning electron microscope) image of a commercial laser diode with its case and window cut away. The anode connection on the right has been accidentally broken by the case cut. The LRD-0400 Series of Collimated Diode (Semiconductor) Lasers are ideal for applications requiring a short wavelength of 400 nm and output power levels from 5 mW to 300 mW with a high level of long-term output power stability. It works on the same basic principle as an LED, but with an internal structure that forces photons to align in phase and direction, producing coherent laser light instead of the. 400nm 30mW single mode pigtailed diode laser module is engineered with a

3um single mode fiber, ensuring the generation of a Gaussian Beam, housed in a coaxial package, it boasts a compact form factor, an integrated photodiode (PD), and the option for a thermoelectric cooler (TE Cooler). This 400nm. A laser diode is a semiconductor device that emits coherent light through the process of stimulated emission. The emitted light waves have the same wavelength, frequency, and.

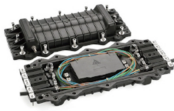
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An interband cascade laser (ICL) is a type of laser diode that can produce coherent radiation over a large part of the mid-infrared region of the electromagnetic spectrum.



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400 nm laser diode module, 30 mW output via 3  $\mu$ m SM fiber. High-power laser module with built-in photodiode for sensing, bio-detection & instrumentation.




What is a Laser Diode? The term LASER stands for Light Amplification by Stimulated Emission of Radiation. A laser diode is a semiconductor-based PN junction device that converts ...



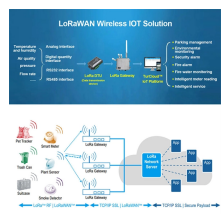
Laser diodes turn electricity into focused light using semiconductor materials. Learn how they work, why material choice affects color, and where they show up...




The LDLC400 series diode laser is ideal for applications that require a wavelength of 400nm and output power levels up to 50mW. The laser features narrow spectral linewidth, stable wavelength, ultra ...




When using a laser diode it is essential to know its performance characteristics because they can easily be destroyed if the circuit conditions are not right. Accordingly it is necessary to understand the main ...




Laser diodes (LD) are semiconductor devices that convert electrical energy into high-power optical energy. These devices are currently used in the fields of telecommunications and ...



The laser diode is formed from a p-n junction and powered by injected electric current. There are many kinds of laser diode with the wavelength from 400nm - 1064nm.



OverviewTypesTheoryHistoryReliabilityApplication  
sCommon wavelengthsFurther reading



Long coherent length diode laser module from CNI Laser. With a wavelength at 400nm, this module is made to produce a long coherent length, stable wavelength with long lifetime and easy operating, ...

## Contact Us

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