

Nec laser diode



AI Overview

NEC laser diodes are high-performance semiconductor devices used in telecommunications, sensing, biomedical, and industrial applications, available in various wavelengths, power levels, and packaging options. Overview NEC, a Japanese multinational electronics company, produces a range of laser diodes, including the NX series, which are widely used in optical communications and sensing systems. NEC laser diodes often feature Multiple Quantum Well (MQW) or Strained MQW (St-MQW) structures, providing high output power, stable single-mode operation, and efficient performance. These diodes are designed for applications such as fiber-optic communications, telemetry, and dense WDM networks.

Key Models and Specifications

- NX7460LE:** A 1480 nm pumping laser diode module with optical isolator for EDFA systems, offering high output power (≥ 120 mW) and stable fundamental mode operation.
- NX8501 Series:** A 1510 nm phase-shifted DFB laser diode with single-mode fiber, designed for stable single longitudinal mode operation over 0–65 °C, suitable for dense WDM fiber-optic networks.
- NX8561JC:** A 1625 nm St-MQW laser diode with single-mode fiber and internal thermoelectric cooler, intended for telemetry equipment.

These diodes typically include features such as low threshold current, wide operating temperature range, and integrated monitoring photodiodes for precise control.

NECSEL Laser Diodes

NECSEL, part of the Ushio Group, specializes in high-performance laser systems and diodes across UV, visible, and NIR wavelengths. NECSEL products include:

- Fiber-coupled lasers for biomedical and industrial applications.
- Multi-wavelength laser modules for imaging and sensing.
- Customizable laser diodes with optimized performance for demanding applications.
- Volume Bragg Grating (VBG) stabilized lasers for narrow spectral output.

NECSEL leverages over 35 years of photonics expertise to provide robust, reliable, and integrable laser solutions for both free-space and fiber-coupled systems. Applica...

Article Content

NEC GLG5261 Laser Hilium Neon Light Power Supply Milliwatt

Overall, the GLG5261 Laser Hilium-Neon NEC 10 Light Power Supply is a reliable and versatile choice for anyone looking for a high-quality power supply for their neon or HID lamps. Its adjustable output

NDL5003 Datasheet

View specifications, operating characteristics, package information and download the NDL5003 datasheet PDF.

NX8561JD Datasheet

NX8561JD is LASER DIODE manufactured by NEC. View specifications, operating characteristics, package information and download the NX8561JD datasheet PDF.

Les diodes laser à 405 nm de Renesas délivrent 350

Ces diodes laser bleu / UV sont compatibles avec l'enregistrement de disques Blu-ray 8x, même à des températures pouvant atteindre 85°C. Alors que

NEC 1550nm MQW DFB Laser Diode 10mW 14-Pin

NEC 1550nm MQW DFB Laser Diode 10mW 14-Pin Butterfully NX8563LA
DESCRIPTION The NX8563LA Series is a 1 550 nm Multiple Quantum Well

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NX8562LB Datasheet (PDF)

The NX7460LE is a 1 480 nm pumping laser diode module with optical isolator for an EDFA (Er Doped optical Fiber Amplifier) that can expand the transmission span and compensate optical losses.

Takanori Shimizu's research works | NEC Corporation, Tokyo (Nippon ...

Takanori Shimizu's 6 research works with 142 citations and 55 reads, including: Picosecond all-optical gate using a saturable absorber in mode-locked laser diodes

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NX8562LB597-BA Datasheet (PDF)

Part #: NX8562LB597-BA. Download. File Size: 216Kbytes. Page: 7 Pages.
Description: NECs CW InGaAsP MQW DFB LASER DIODE MODULE FOR

Datasheet Archive: NEC LASER DIODE datasheets

View results and find nec laser diode datasheets and circuit and application notes in pdf format.

NX7660JC LASER DIODE Datasheet | NEC

NX7660JC is LASER DIODE manufactured by NEC. View specifications, operating characteristics, package information and download the datasheet PDF.

NX8341 Datasheet (PDF)

Part #: NX8341. Download. File Size: 287Kbytes. Page: 14 Pages. Description: LASER DIODE. Manufacturer: Renesas Technology Corp.

NX5501 datasheet

NEC's NX5501 Series 1550 nm Multiple Quantum Well (MQW) structured Fabry-Perot (FP) laser diode with InGaAs monitor PIN-PD. *1 Focal Point: A point to get maximum optical output power from fiber.

NX8562LB Datasheet (PDF)

The NX8562LB is a 1 550 nm laser diode with Polarization Maintain Fiber (PMF). This device is designed as CW light source and ideal for transmission systems in which external modulators are used.

NEC NDL3321ST 5mW 650nm AlGaInP MQW Laser Diode for DVD,

The NDL3321ST is AlGaInP 650 nm visible laser diodes specially developed for DVD and DVD-ROM. The Multiple Quantum Well (MQW) LD chip can achieve low operating current over a wide

LD | NICHIA CORPORATION

World-leading Laser Diodes Nichia's laser diodes deliver world-class quality and optical output power. With stable emission performance and exceptional

NX8562LB Datasheet (PDF)

1 480 nm EDFA APPLICATION InGaAsP STRAINED MQW DC-PBH LASER DIODE MODULE, NX8562LB Datasheet, NX8562LB circuit, NX8562LB data sheet : NEC, alldatasheet, Datasheet,

Laser diode

Laser diodes form a subset of the larger classification of semiconductor p - n junction diodes. Forward electrical bias across the laser diode causes the two

Laser | Products | Ushio Inc.

Ushio's Laser Diode (LD) Ushio's Laser Diode (LD) With over 40 years of considerable experience in photonics industry, Ushio Inc., provides varies

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