

488 nm, 20 mW Single Mode Laser Diode PM Fiber-Coupled Coax Package



Features

- 488nm, 20mw Output
- 3 μ m PM Fiber, NA 0.12
- FC/APC Fiber Connector
- Coaxial Package with Mounting Bracket

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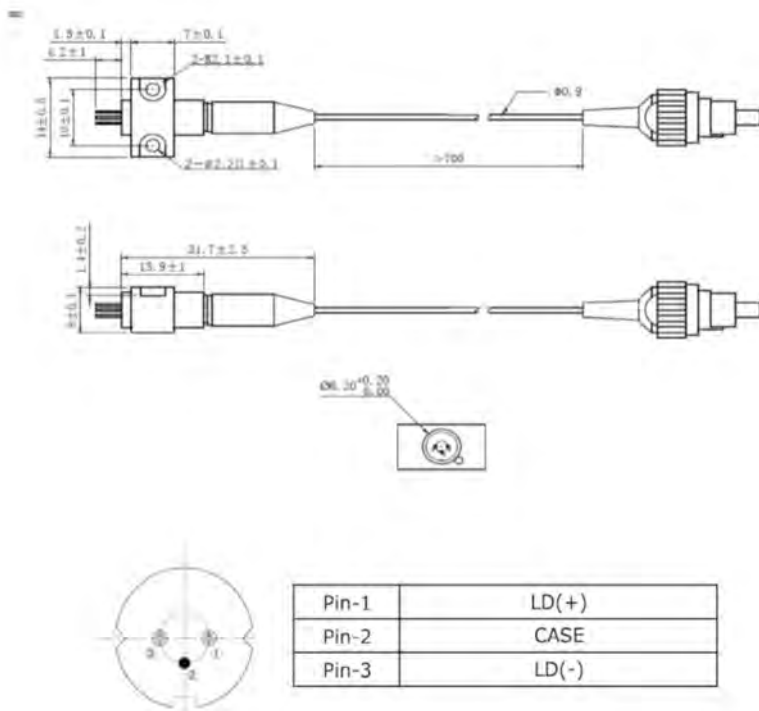
488NM-20MW-PM Overview

This laser is offered in a polarization maintaining fiber-coupled package and terminated with an FC/APC connector. A Nichia TO-can packaged 488 nm laser is mounted into a coaxial header and precisely coupled to the fiber pigtail output. The coaxial package is installed in a mounting bracket that also serves as an additional layer of heat sinking to keep the integrated source thermally stabilized. The mounting bracket allows the user to bolt the package to a heat sink to dissipate waste heat away from the internal laser diode. The fiber pigtail has a 900 micron loose tube jacket to allow the user to position the fiber without damaging the PM fiber. Other fiber and connector options are available; inquire for options and details.

Proven Laser Diode Expertise

These high stability fiber coupled laser diodes are designed and manufactured to meet the most demanding R&D and industrial applications.

Proprietary design, packaging, and fiber coupling processes produce laser diodes with very high stability and low noise. Each laser diode is subject to extensive testing and burn-in before shipment to ensure the highest possible levels of quality and long term reliability.





OPTICAL SPECIFICATIONS AT 25°C

- Center Wavelength: 488 nm \pm 10 nm
- Output Power: 20 mW
- Wavelength Temperature Coefficient: 0.05 nm/°C
- Spectral Width (FWHM): 2.0 nm
- Beam Type: Gaussian
- Polarization Extinction Ratio: 15 dB

ELECTRICAL SPECIFICATIONS AT 25°C

- Operating Current: 140 mA
- Threshold Current: 35 mA
- Operating Voltage: 6.5 V

PACKAGE AND FIBER SPECIFICATIONS

- Coaxial Package with Mounting Bracket
- Fiber Type: Polarization Maintaining, Single Mode
- Fiber Connector: FC/APC
- Slow Axis Aligned to the Key of the FC Connector
- Fiber Core Diameter: 3 μ m
- Fiber NA: 0.12

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