



Offered by
LASER LAB SOURCE

manufactured by



450nm 50mW Fiber-Coupled Laser Diode

RLS / 450NM-50MW-PMF

- o 450nm \pm 10nm Output
- o Up to 50mW Output Power
- o 3 μ m Polarization Maintaining Fiber
- o Wide Operating Temperature: 0°C – 70°C
- o Terminated with FC/APC Connector





450NM FIBER-COUPLED LASER DIODE

This Fabry-Perot laser is offered in a fiber-coupled coaxial package. This laser is coupled to 3 μm polarization-maintaining fiber, NA 0.12, and terminated with an FC/APC connector. Other fiber and connector options are available; inquire for options and details.

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.

RLS / 450NM-50MW-PMF GENERAL SPECIFICATIONS

OPTICAL SPECIFICATIONS

- Output Wavelength: 450 nm ± 10 nm
- Output Power: 50 mW
- Spectral Width (FWHM): 2.0 nm
- Wavelength Temp. Coefficient: 0.05 nm/ $^{\circ}\text{C}$
- Beam Type: Gaussian Beam
- Laser Type: Fabry-Perot

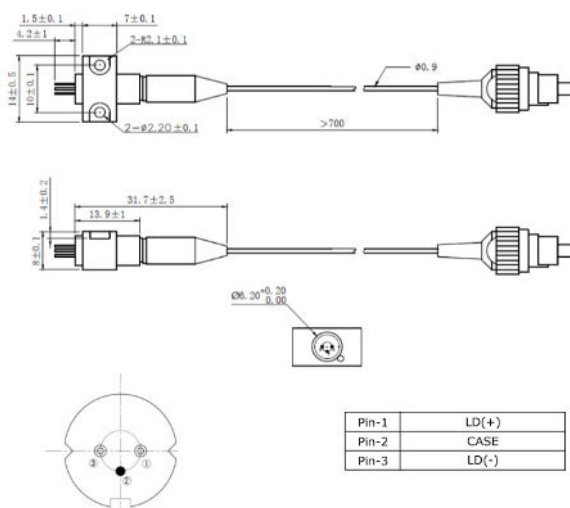
FIBER SPECIFICATIONS

- Fiber Type: Polarization Maintaining Fiber
- Polarization Extinction Ratio: 15 dB
- Fiber Core: 3 μm
- N.A.: 0.12
- Fiber Length: >80 cm
- Fiber Connector: FC/APC (Other Types Available; Inquire)
- Alignment: Slow Axis Aligned to FC Key

ELECTRICAL SPECIFICATIONS

- Threshold Current: 25 mA (typ)
- Operating Current: 150 mA (typ)
- Operating Voltage: 6.0 V (typ)

B82 Package and Pin Configuration





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PRODUCT SALES AND SERVICE:

Unlimited phone and email support is provided for products purchased through Laser Lab Source. Orders for this product are fulfilled by Laser Lab Source in North America and select international regions. It is manufactured by Wavespectrum, Beijing, China.

PRODUCT WARRANTY:

This product is sold with a full one-year warranty. It is warranted to be free from defects in material and/or workmanship for a period of one year from the date of shipment.



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