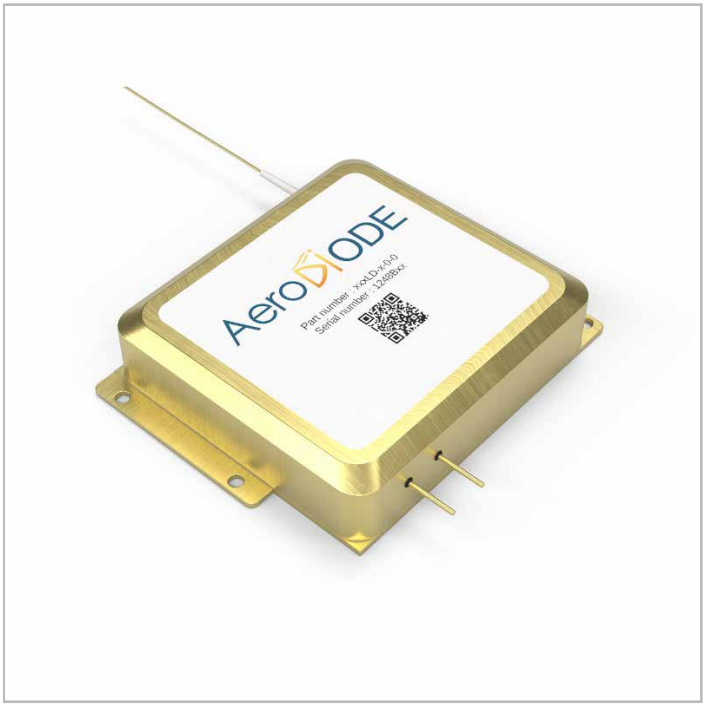
Offered by
LASER LAB SOURCE

manufactured by AeroDIODE

1470nm Fiber-Coupled Laser Diode Module
30W Output Power, 105µm Fiber NA 0.22



1470LD-5-0-0 / LASER-DIODE

- 105µm Core Fiber-Coupled, NA 0.22
- Spectral Width < 20 nm
- SMA905 Terminated
- High Heat Package for High Reliability
- Also Available in Pre-Configured CW Mode Control and Mount Module

LASER
DIODE
SOURCES

Laser Lab Source
a division of Research Lab Source Corporation

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HIGH POWER FIBER-COUPLED LASER DIODE

These multi-mode laser diodes provide up to 30W CW output power. The high stability make them an excellent choice for sensing, spectroscopy, metrology, telecom, and research applications.

These laser diodes are offered in a compact module with 105µm fiber, terminated with an SMA905 connector. The package is designed for efficient heat conduction to ensure long operating life-time and stable output.

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.

FULLY TESTED CW-SOURCE SYSTEM

This laser diode can also be ordered in a fully tested and calibrated CW source system. Check our website for details, or inquire for a quote.

1470NM DFB LASER DIODE - 30W CW OUTPUT

OPTICAL AND ELECTRICAL SPECIFICATIONS

- Wavelength: 1470 nm (±10 nm)
- Spectral Width: 20 nm
- CW Output Power: up to 30 Watts
- Wavelength shift w Temperature: 0.3 nm/°C
- Wavelength shift w Current: 1 nm/A
- Feedback Isolation: > 30 dB (1020 nm to 1200 nm)

ELECTRICAL SPECIFICATIONS

- Threshold Current: 0.3 Amps
- Forward Bias Drive Current: 9 Amps *
- Forward Voltage: 25 Volts
- Slope Efficiency: 3.8 W/ A
- Conversion Efficiency: 16%
- * For operating currents above 6 Amps, the electrical connections must be soldered

FIBER AND PACKAGE SPECIFICATIONS

- Multimode 105 µm Core Fiber, NA = 0.22
- Fiber Buffer/Tube Diameter: 125/900 µm
- Min. Bend Radius: 30 mm
- Fiber Termination: SMA905
- Form Factor: 80 mm x 80 mm x 24.8 mm
- Storage Temperature: -30°C to 70°C
- Operating Temperature: 15°C to 45°C

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 AeroDIODE, Talence, France.

PRODUCT WARRANTY:

This product is sold with a full one-year warranty. It is warrantied 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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