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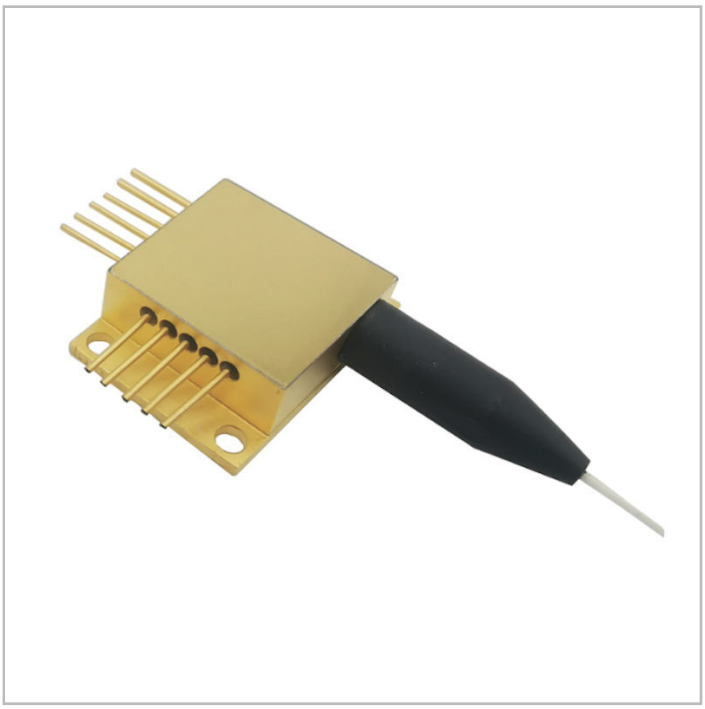
LASER LAB SOURCE

manufactured by RealLight

808nm Fiber-Coupled Laser Diode | 9W Output Power



RLS / 808NM-9W-105UM-RL

- 105µm Fiber Core; 200µm Core Fiber Also Available (Inquire)
- Integrated Thermistor, Photodiode and Red Aiming Beam
- SMA905 Connector

LASER
DIODE
SOURCES

Laser Lab Source
a division of Research Lab Source Corporation

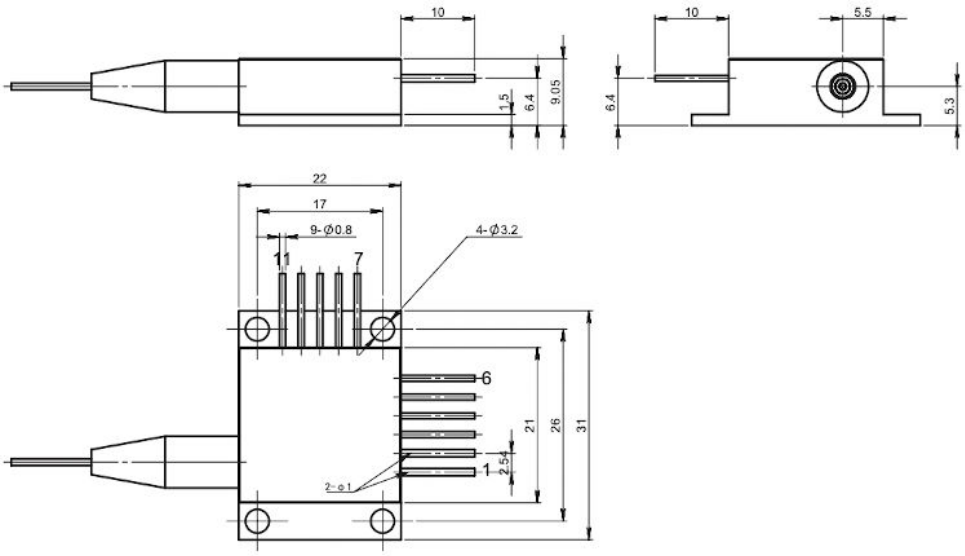
www.LaserLabSource.com
phone: 800-887-5065

670 South Ferguson
Bozeman, MT 59718

FIBER-COUPLED 808NM LASER DIODE

These multimode fiber-coupled laser diodes deliver high power via the 105µm core fiber. The laser is designed an constructed to provide stable output and a long operating lifetime. The laser includes an internal photodiode for power monitoring, and the integrated thermistor enables precision temperature control for wavelength and power stability. They also feature a separately controlled low-power aiming beam.

DIMENSIONS AND PINOUT



Pin	Function	Pin	Function
1	Laser(+)	7	Thermistor
2	Laser (–)	8	Thermistor
3	PD (N)	9	Aiming Beam (+)
4	PD (P)	10	Aiming Beam (–)
5	–	11	–
6	–		

LASER SPECIFICATIONS

- CW Output Power: 9 Watts
- Center Wavelength: 808 nm
- Center Wavelength Tolerance: ±5 nm
- Typical Spectral Width: 4 nm
- Temperature Tuning Coefficient: 0.3 nm/°C
- Threshold Current: 1.4 Amps
- Forward Current: 11 Amps (typical full power)
- Forward Voltage: 2 Volts

FIBER AND CONNECTOR

- Fiber Core Diameter: 105 µm
- Fiber Cladding Diameter: 125 µm
- Fiber Coating Diameter: 250 µm
- Numerical Aperture: 0.22 NA
- Connector: SMA905
- Alternate Available Fiber: 200µm Core / 220µm Clad (Inquire for Availability and Specifications)

ELECTRICAL SPECIFICATIONS

- Threshold Current: 1.4 A
- Operating Current: 11 A
- Operating Voltage: 1.4 V
- Monitor Photodiode Range: 2000 µA
- Thermistor: 10 kΩ (±5%, @25°C)
- Slope Efficiency: 0.9 W/A

GENERAL SPECIFICATIONS

- Operating Temperature Range: 10°C – 30°C
- Storage Temperature Range: -20°C – 70°C
- Max Operating Humidity, Relative: 75 %
- Max Storage Humidity, Relative: 90 %
- Lead Soldering Temp: 250°C max, 10 sec