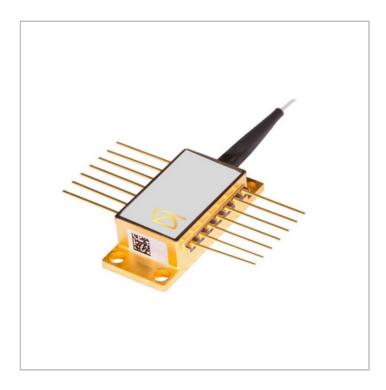




1064nm Narrow Line Width Butterfly Laser Diode 800mW Output Power, 105µm Fiber Coupled



RLS / 1064NM-800MW-RL

- o Butterfly Package Laser Diode
- o Narrow Line Width < 0.1nm
- o 105μm Fiber-Coupled, FC/PC Connector SMA905 Connector Optional
- o Industry-Standard Type-1 Pinout





BUTTERFLY LASER DIODE

These multimode butterfly-packaged lasers deliver high power, narrow line width laser light due to the internal volume Bragg grating.

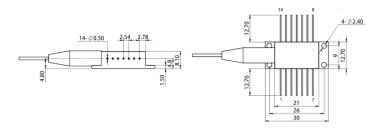
RELIABLE PERFORMANCE IN A STANDARD LASER PACKAGE

These laser diodes are offered in an industry standard 14-pin butterfly package with a 105µm multi-mode fiber pigtail, terminated with an FC/PC connector.

The laser package integrates a thermo-electric cooler with 10 $k\Omega$ thermistor, and an internal monitor photodiode.

The pinout is industry-standard Type-1 pinout. The package is electrically floating relative to ground, offering flexibility in mounting and control of the laser.

DIMENSIONS AND PINOUT



Pin	Function	Pin	Function
1	TEC (+)	14	TEC (–)
2	Thermistor	13	_
3	PD Anode	12	_
4	PD Cathode	11	Laser Diode Cathode
5	Thermistor	10	Laser Diode Anode
6	_	9	_
7	_	8	-

SPECIFICATIONS

LASER SPECIFICATIONS

• CW Output Power: 800 mW

• Center Wavelength: 1064 nm (±0.5 nm)

• Spectral Width: < 0.1 nm

• Temperature Tuning Coefficient: 0.01 nm/°C

• Current Tuning Coefficient: 0.05 nm/A

FIBER AND CONNECTOR

• Fiber Core Diameter: 105 μm

• Fiber Cladding Diameter: 125 μm

• Fiber Coating Diameter: 250 µm

• Numerical Aperture: 0.22 NA

• Connector: FC/PC or SMA905 (specify @ time of order)

• Fiber Length: 100 cm ±10 cm

ELECTRICAL SPECIFICATIONS

• Threshold Current: 0.2 A

• Operating Current: 1.5 A

• Operating Voltage: 1.8 V

TEC max Current: 2.5 A

TEC max Voltage: 6.3 V

• Monitor Photodiode Range: 2000 μA

• Thermistor: 10 (±5%) kΩ (@25°C)

• Slope Efficiency: 0.6 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

PRIMARY APPLICATIONS

• Raman Spectroscopy

• Analytical Instruments

• Biological Research





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 Real-Light, Beijing.

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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