



808nm Pretested Laser Diode Source System 500mW Single-Mode Pulsed Output Power / 250mW CW



808NM PULSED SINGLE-MODE LASER DIODE SOURCE SYSTEM

- o Output Power (Pulsed mode): 500 mW
- o Output Power (CW mode): 250 mW
- o Spectral Width (FWHM): < 3.5 nm
- o 14-Pin Butterfly Package
- o Hi780 Optical Fiber





PULSED LASER SOURCE SYSTEM -- 808LD-1-2-0 / LASER-DIODE / CCS-PULSE

This precision pulsed laser diode source system includes a 808nm single-mode butterfly laser diode in a preconfigured, pretested control and mount system delivering up to 500mW pulse output power from the single-mode fiber (250mW CW). We take the guesswork out of your 808nm source requirement and you receive a turn-key system ready to go.

The CCS-pulse laser diode controller and mounting module provides precision control of the drive current and the laser temperature. With comprehensive control over the laser diode, the output power can be controlled, and the wavelength can be controlled by adjusting the laser temperature.

The controller system is operated by the included graphical user interface over USB, and allows several source systems to be controlled at the same time.

808NM DFB LASER DIODE OPTICAL OUTPUT SPECIFICATIONS

- · Adjustable Pulse Width Range: 1 Nanosecond to CW
- Center Wavelength: 808 nm (±5 nm)
- Pulsed Peak Output Power: 500 mW
- CW Output Power (typ): 250 mW
- Spectral Width: 3.5nm
- Duty Cycle Range: < 5%
- Temperature tuning: ~0.06 nm/°C

CONTROL ELECTRONICS AND MOUNTING MODULE

- Laser diode chip temperature tuning range: 20 50 °C
- TEC Controller Compatible with NTC Thermistors: $1k\Omega$ $100 k\Omega$
- Mounting Socket Base Material: Anodized Aluminum
- Mounting Socket Technology: Zero Insertion Force Socket

USER INTERFACE, DIMENSIONS AND POWER INPUT

- Interface: USB
- OS Compatibility: Windows XP / Windows 7
- Control Software: Control Software Windows GUI Included
- Input Power Supply: 12VDC (220V/110V adapter included)
- Module Dimensions: 119mm (W) x 130mm (L) x 28mm(H)
- Libraries: DLLs Hexa/Linux Labview Python
- Analog Interface (0-3.3V): Peak Power Adjustment







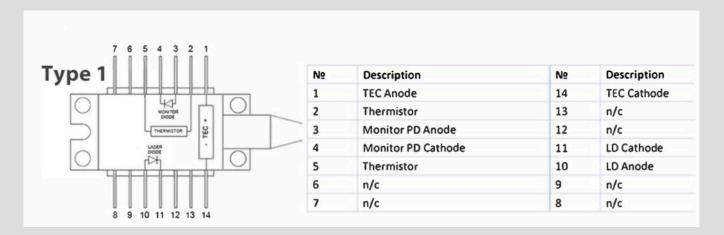
808NM SINGLE-MODE BUTTERFLY LASER DIODE

These single-mode laser diodes offer a narrow emission profile and up to 250mW CW output power and 600nm in pulsed mode. Their high stability make them an excellent choice for sensing, spectroscopy, metrology, telecom, and research applications.

These laser diodes are offered in a compact 14-pin butterfly package with a single-mode fiber pigtail. They have an integrated thermo-electric cooler, an internal 10 kOhm thermistor, and an internal monitor photodiode.

ELECTRICALLY FLOATING PACKAGE

TYPE 1 CONFIGURATION







808NM SINGLE-MODE BUTTERFLY LASER DIODE SPECIFICATIONS

OPTICAL AND ELECTRICAL SPECIFICATIONS

Wavelength: 808 nm (± 5 nm)Pulsed Output Power: 600 mW

CW Output Power: 250 mW

- . . . -

• Emission Bandwidth: ~ 3.5 nm

• Wavelength shift w/ Temperature: 0.25 nm/°C

• Wavelength shift w/ Current: 5 nm/A

FIBER PIGTAIL

• Fiber: Hi780

Fiber Core Diameter: 5 μm
Buffer Diameter: 250 μm

Connector: FC/APC





PRODUCT SALES AND SERVICE:

Orders for this product are fullfilled by Laser Lab Source in North America and select internation 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.



Laser Lab Source, a division of Research Lab Source Inc. 670 S. Ferguson St., Suite 3 Bozeman, MT 59718 USA

Phone: 406-219-1472

www.LaserLabSource.com



Rue François Mitterrand Institut d'Optique d'Aquitaine 33400 Talence FRANCE