



## 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

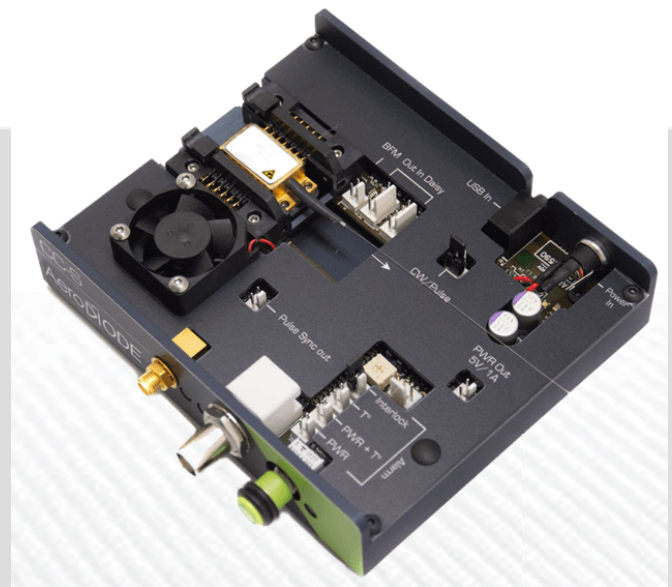
- Adjustable Pulse Width Range: 1 Nanosecond to CW
- Center Wavelength: 808 nm ( $\pm 5$  nm)
- Pulsed Peak Output Power: 500 mW
- CW Output Power (typ): 250 mW
- Spectral Width: 3.5nm
- Duty Cycle Range: < 5%
- Temperature tuning:  $\sim 0.06$  nm/ $^{\circ}$ C

### CONTROL ELECTRONICS AND MOUNTING MODULE

- Laser diode chip temperature tuning range : 20 - 50  $^{\circ}$ 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





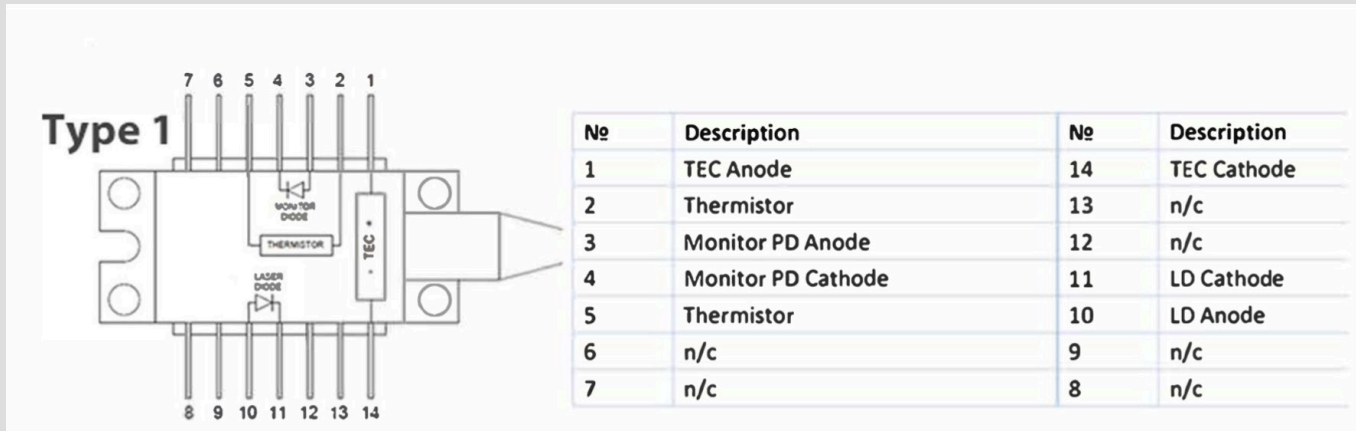
## 808NM SINGLE-MODE BUTTERFLY LASER DIODE

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 ( $\pm 5$  nm)
- Pulsed Output Power: 600 mW
- CW Output Power: 250 mW
- Emission Bandwidth:  $\sim 3.5$  nm
- Wavelength shift w/ Temperature: 0.25 nm/ $^{\circ}$ C
- Wavelength shift w/ Current: 5 nm/A

### FIBER PIGTAIL

- Fiber: Hi780
- Fiber Core Diameter: 5  $\mu$ m
- Buffer Diameter: 250  $\mu$ m
- Connector: FC/APC



Offered by  
**LASER LAB SOURCE**

manufactured by **AeroDIODE**

## **PRODUCT SALES AND SERVICE:**

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 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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