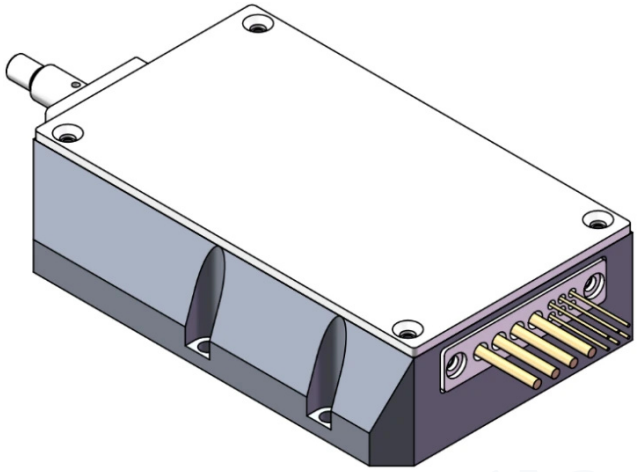
# 808 nm / 50 W Fiber-coupled semiconductor laser

Select by wavelength, optical output, fiber and cooling. Laser optical output is not LPC receiver electrical output.



Mechanical or principle illustration, not a product photograph

## Parameters

| | |
|---|---|
| Center wavelength | 808 nm |
| Output power class | 50 W |
| Operating voltage | 9 V |
| Operating current | 12 A |

## Applications & selection

PoF transmitters, source matching and laboratory platforms. Confirm wavelength, interface, driver, cooling and safety interlocks.

Optoelectronic test condition: 25°C water temperature. Operating-temperature limits are listed separately.

## Pins & electrical interface

| Pin | Function | |
|---|---|---|
| 1 | LD+ | |
| 2 | LD- | |
| 3 | 650+ | |
| 4 | 650- | |
| 5 | NTC | NTC |
| 6 | PD+ | PD- |
| 7 | - | - |

## Optoelectronic parameters

| Parameter | Unit | Typ. | Max. |
|---|---|---|---|
| Center wavelength | nm | 808 | — |
| Output power class | W | 50 | — |
| Threshold current | A | 1.73 | 1.8 |
| Operating voltage | V | 9 | 9.3 |
| Operating current | A | 12 | 13 |
| Slope efficiency | W/A | 4.96 | — |
| Electrical-to-optical efficiency | % | 47 | — |

## Fiber specifications

| Parameter | Unit | Value |
|---|---|---|
| Fiber core diameter | μm | 200 |
| Fiber numerical aperture | - | 0.22 |
| Fiber length | m | 2 (optional) |
| Optical fiber interface | - | SMA905, detachable |
| Aiming wavelength | nm | 650±20 |
| Aiming optical power | mW | 2 |

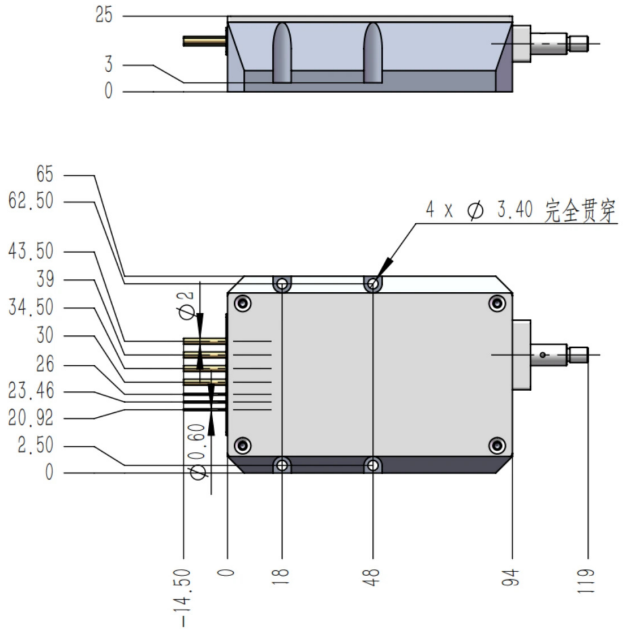
| Parameter | Unit | Value |
|---|---|---|
| Aiming current | mA | 100 |
| Aiming voltage | V | 2.3 |

## Environment & mounting

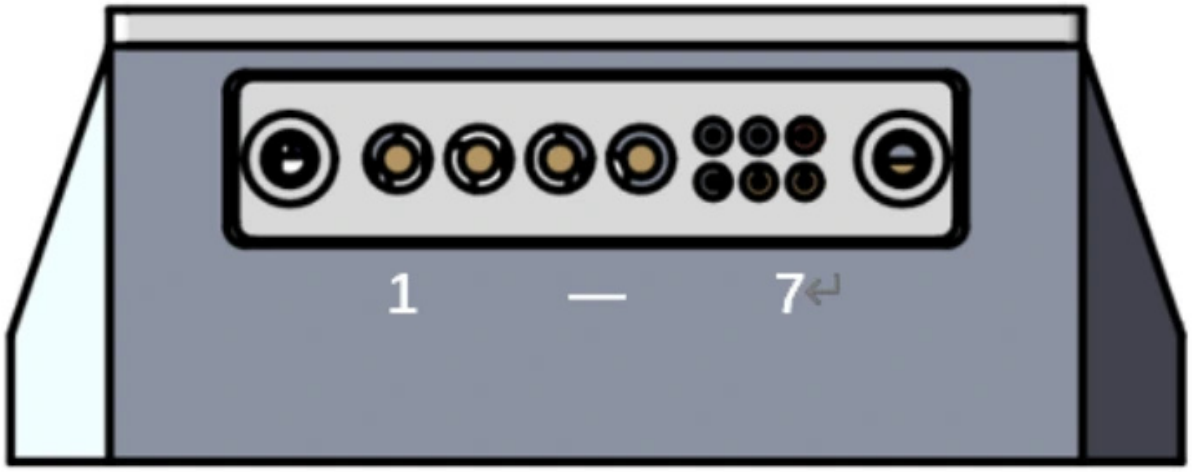
| Parameter | Unit | Min. | Typ. | Max. |
|---|---|---|---|---|
| Operating temperature | °C | 15 | 25 | 35 |
| Storage temperature | °C | -20 | — | 50 |
| Humidity | % | <70% at 25°C | | |
| Cooling options | - | Conduction cooling | | |
| Pin soldering time | s | <10 | | |
| Soldering temperature | °C | <280 | | |

FULLSUNS

## Dimensions & mounting




Dimensions & mounting




Pins & electrical interface

Reference values support selection. Confirm final configuration and acceptance conditions in the technical agreement. A power class is not guaranteed output under every operating condition.