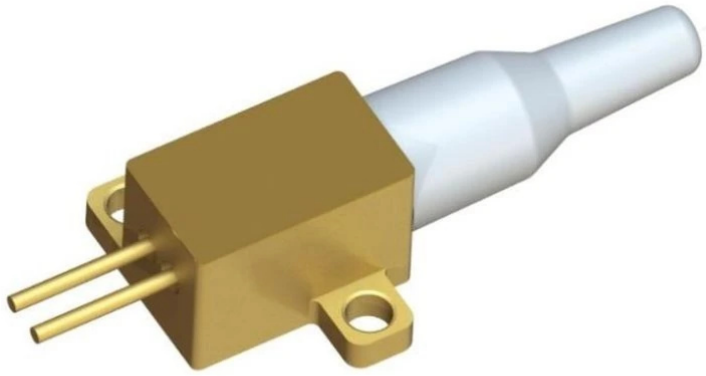
808 nm / 5 W Fiber-coupled semiconductor laser

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	5 W
Operating voltage	1.75 V
Operating current	5.5 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	1	2
Function	LD+	LD-

Optoelectronic parameters

Parameter	Unit	Typ.	Max.
Center wavelength	nm	808	—
Output power class	W	5	—
Threshold current	A	0.7	0.9
Operating voltage	V	1.75	1.85
Operating current	A	5.5	7
Slope efficiency	W/A	1.2	—
Electrical-to-optical efficiency	%	52	—

Fiber specifications

Parameter	Unit	Value
Fiber core diameter	μm	105
Fiber numerical aperture	-	0.22
Fiber length	m	1.5 (optional)
Optical fiber interface	-	SMA905

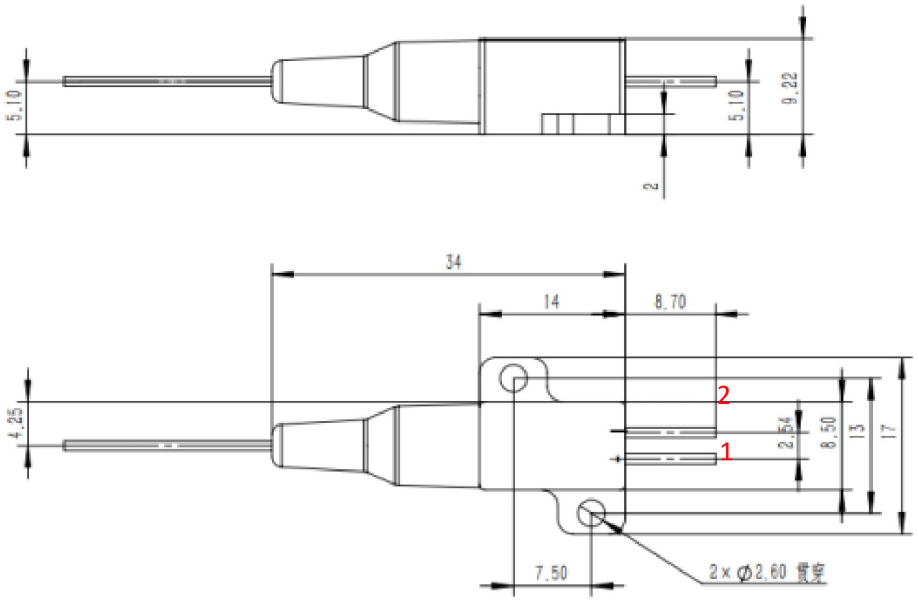
Environment & mounting

Parameter	Unit	Min.	Typ.	Max.
Operating temperature	°C	15	25	35
Storage temperature	°C	-20	—	50
Humidity	%	<70% at 25°C		
Cooling options	-	Water cooling		
Water tube dimensions	—	10*6.5mm		

Parameter	Unit	Min.	Typ.	Max.
Flow rate	L/min	10		
Pin soldering time	s	<10		
Soldering temperature	°C	<280		

FULLSUNS

Dimensions & mounting



Dimensions & mounting

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.