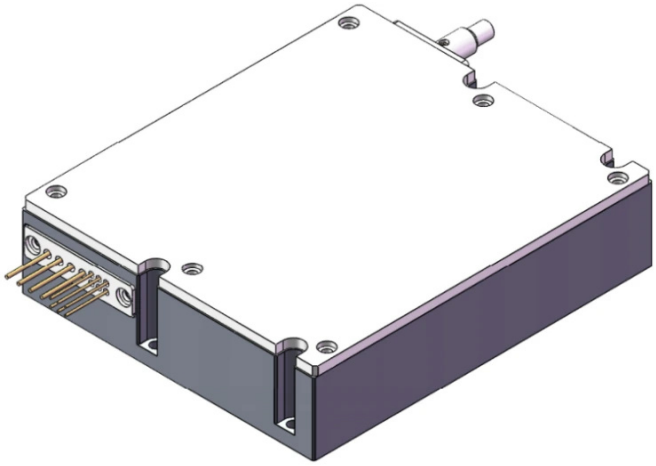
808 nm / 100 W Fiber-coupled semiconductor laser

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	100 W
Operating voltage	21.6 V
Operating current	10 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	-	
4	-	
5	NTC	NTC
6	-	-
7	-	-

Optoelectronic parameters

Parameter	Unit	Typ.	Max.
Center wavelength	nm	808	—
Output power class	W	100	—
Threshold current	A	1.73	1.8
Operating voltage	V	21.6	22.2
Operating current	A	10	12
Slope efficiency	W/A	12	—
Electrical-to-optical efficiency	%	46	—

Fiber specifications

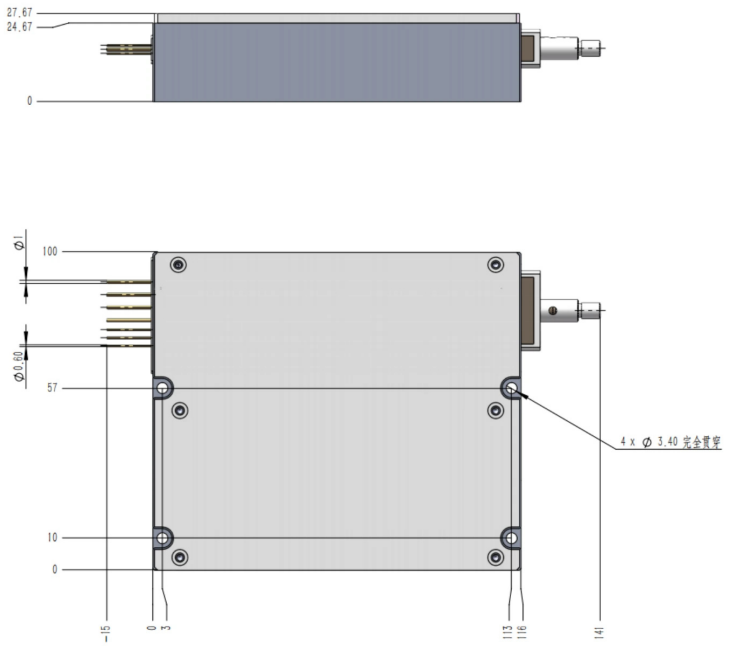
Parameter	Unit	Value
Fiber core diameter	μm	200
Fiber numerical aperture	-	0.22
Fiber length	m	-
Optical fiber interface	-	SMA905

Environment & mounting

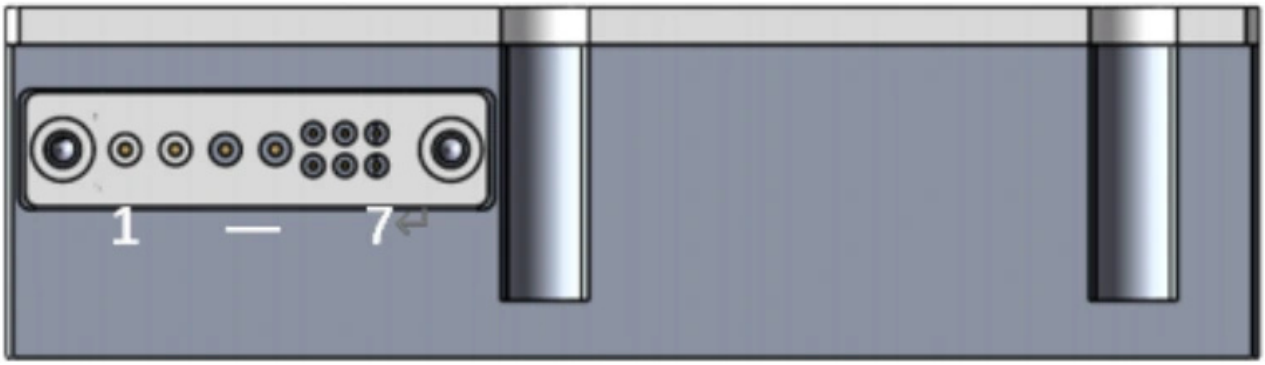
Parameter	Unit	Min.	Typ.	Max.
Operating temperature	°C	15	25	35
Storage temperature	°C	-20	—	50
Humidity	%	<70% at 25°C		
Cooling options	-	Conduction cooling		
Pin soldering time	s	<10		
Soldering temperature	°C	<280		

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.