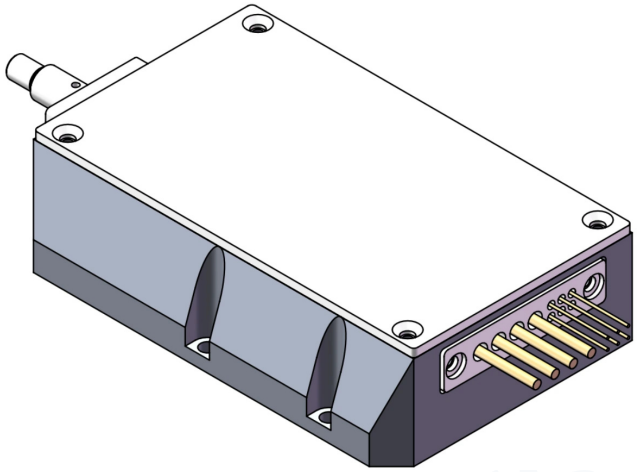
1064 nm / 50 W Fiber-coupled semiconductor laser

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	1064 nm
Output power class	50 W
Operating voltage	7.6 V
Operating current	13 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	LD1+	
2	LD1-	
3	-	
4	-	
5	NTC	NTC
6	-	-
7	-	-

Optoelectronic parameters

Parameter	Unit	Min.	Typ.	Max.
Center wavelength	nm	—	1064	—
Output power class	W	—	50	—
Threshold current	A	—	0.9	1.2
Operating voltage	V	—	7.6	8.5
Operating current	A	—	13	15
Slope efficiency	W/A	—	4.13	—
Electrical-to-optical efficiency	%	47	50	—

Fiber specifications

Parameter	Unit	Min.	Typ.	Max.
Fiber core diameter	μm	—	200	—
Fiber numerical aperture	-	—	0.22	—
Fiber length	m	—	1.5	—
NA□95%E□	-	—	0.13	—
Aiming wavelength	nm	—	-	—
Aiming optical power	mW	—	-	—

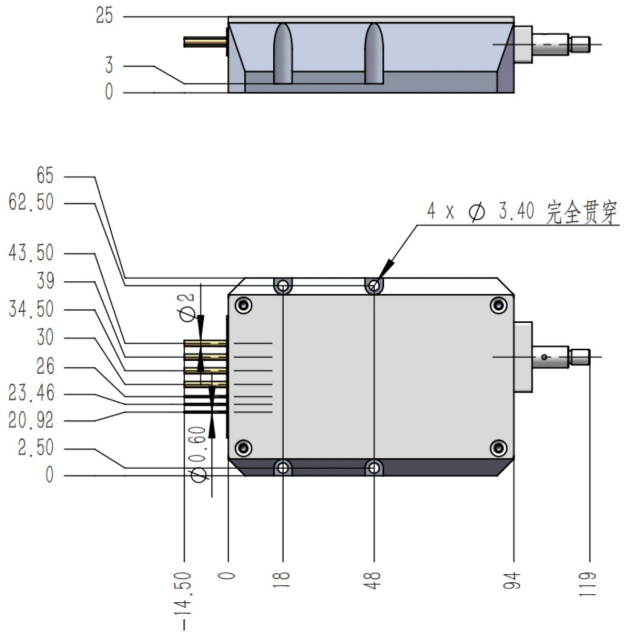
Parameter	Unit	Min.	Typ.	Max.
Aiming current	mA	—	-	—
Aiming voltage	V	—	-	—

Environment & mounting

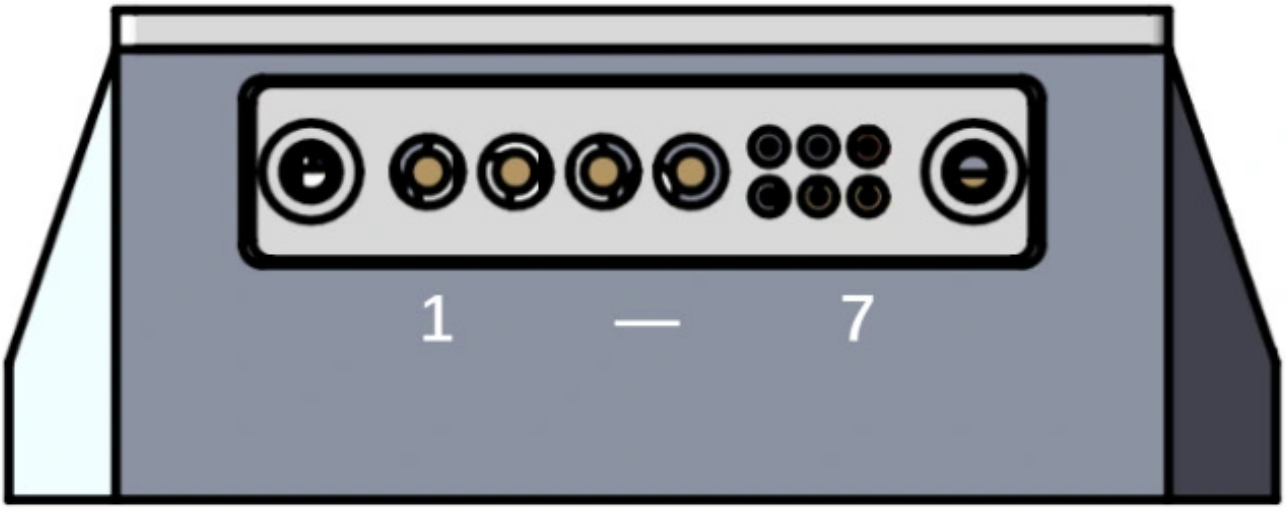
Parameter	Unit	Min.	Typ.	Max.
Operating temperature	°C	15	25	35
Storage temperature	°C	-20	—	50
Humidity	%	<70% at 25°C		
Cooling options	-	Conduction cooling		
Water tube dimensions	-	-		
Flow rate	L/min	-		
Optical fiber interface	-	Bare fiber		

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.