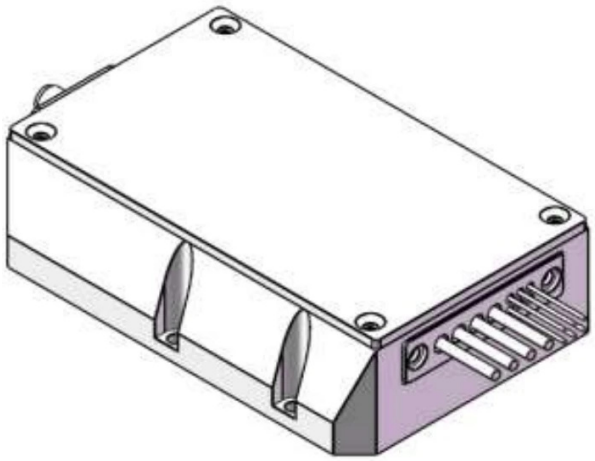
915 nm / 50 W Fiber-coupled semiconductor laser

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	915 nm
Output power class	50 W
Operating voltage	3.4 V
Operating current	25.5 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	Function	
1	LD+	
2	LD-	
3	650+	
4	650-	
5	NTC	NTC
6	PD+	PD-
7	-	-

Optoelectronic parameters

Parameter	Unit	Min.	Typ.	Max.
Center wavelength	nm	905	915	925
Output power class	W	—	50	—
Threshold current	A	—	1.75	2
Operating voltage	V	—	3.4	3.6
Operating current	A	—	25.5	32
Slope efficiency	W/A	—	2.11	—
Electrical-to-optical efficiency	%	—	50.8	—
Aiming wavelength	nm	—	650±20	—
Aiming optical power	mW	—	2	—
Aiming current	mA	—	100	—
Aiming voltage	V	—	2.3	—

Fiber specifications

Parameter	Unit	Value
Fiber core diameter	μm	200
Fiber numerical aperture	-	0.22

Parameter	Unit	Value
NA□95%□	-	0.16
Fiber length	m	Optional
Optical fiber interface	-	Optional

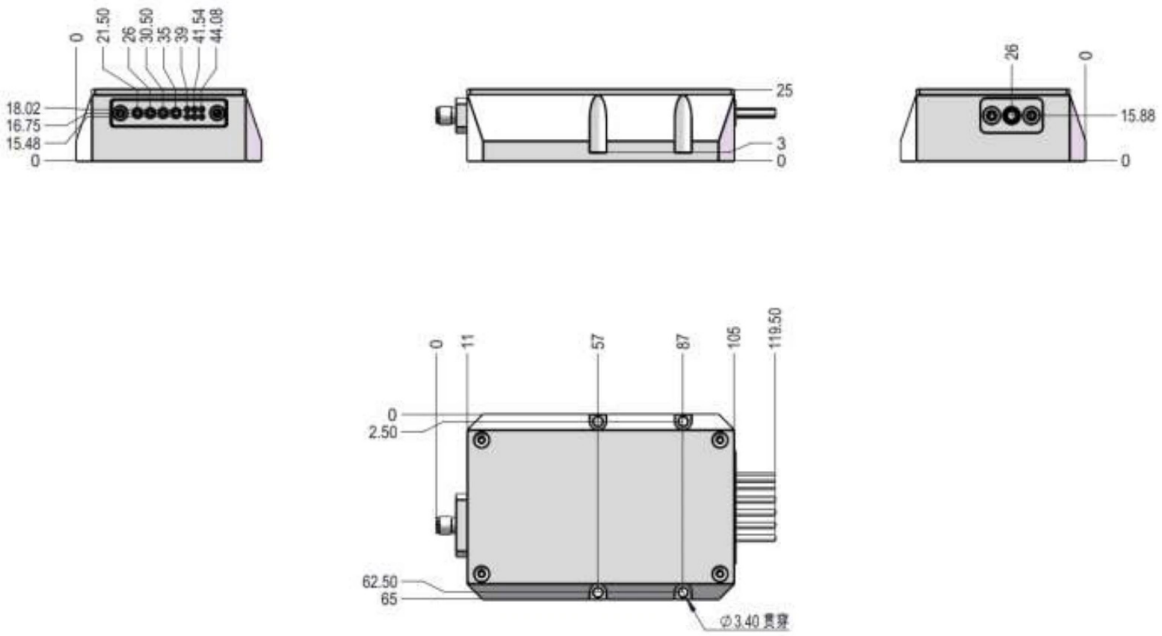
Environment & mounting

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		

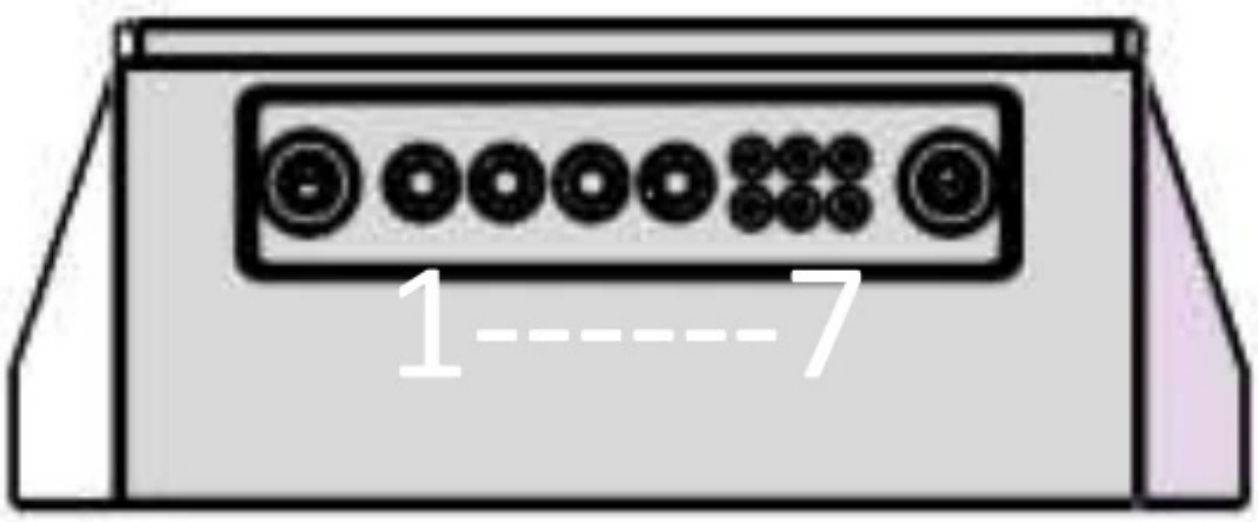
Test conditions & configuration

Test condition	Water temperature 25°C
Optical fiber interface	Bare fiber / FC / SMA905 / QCS options
Fiber length	2.5 m / 5 m / 10 m options

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.