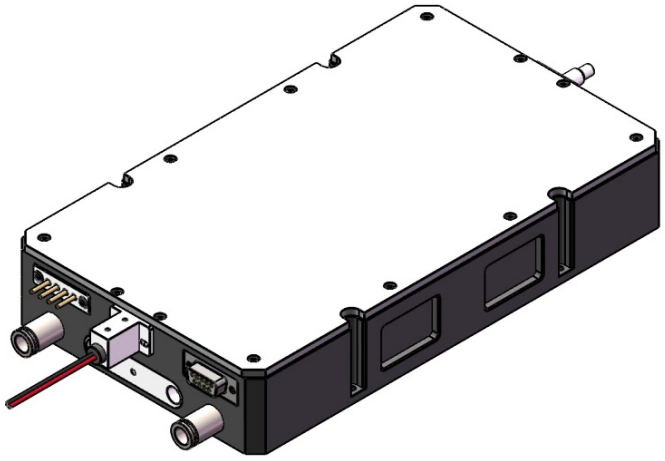
808 nm / 700 W Fiber-coupled semiconductor laser

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 / 650 nm
Output power class	700 / 0.5 W
Operating voltage	50*2 / 2.3 V
Operating current	19.5*2 / 0.28 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	Pin	Function
1	LD1+	1	NTC1
2	LD1-	2	NTC1
3	LD2+	3	NTC2
4	LD2-	4	NTC2
5	650+	5	PD+
6	650-	6	PD-
-	-	7	-
-	-	8	-
-	-	9	-

Optoelectronic parameters

Parameter	Unit	Typ. 808 nm	Typ. 650 nm
Center wavelength	nm	808	650
Output power class	W	700	0.5
Threshold current	A	3.2	0.1
Operating voltage	V	50*2	2.3
Operating current	A	19.5*2	0.28
Slope efficiency	W/A	41.7	-
Electrical-to-optical efficiency	%	36	-

Fiber specifications

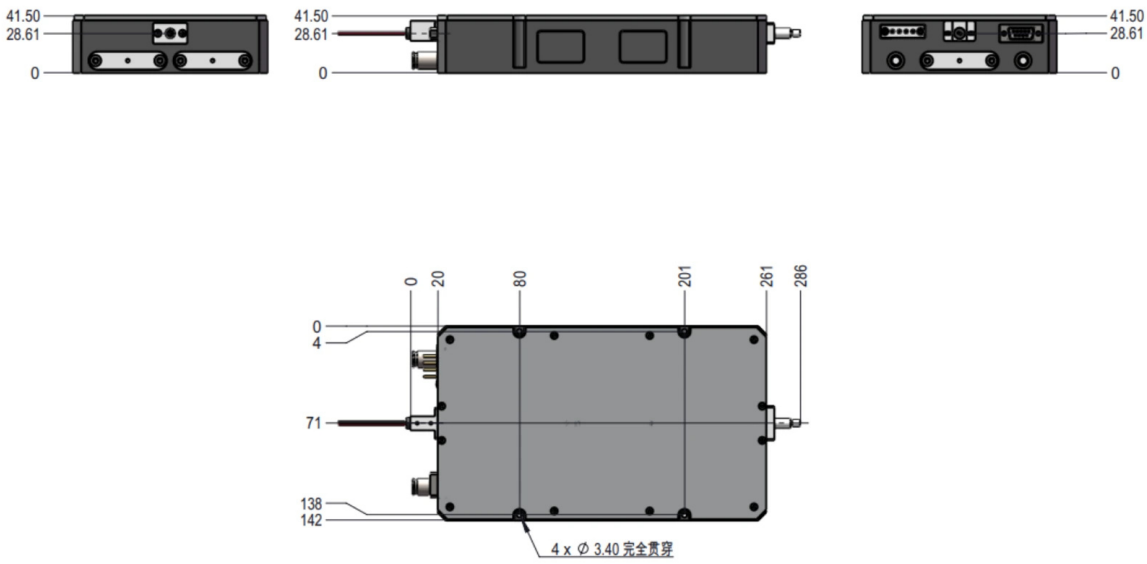
Parameter	Unit	Value
Fiber core diameter	μm	400
Fiber numerical aperture	-	0.22
Fiber length	m	1 (optional)
Optical fiber interface	-	SMA905

Environment & mounting

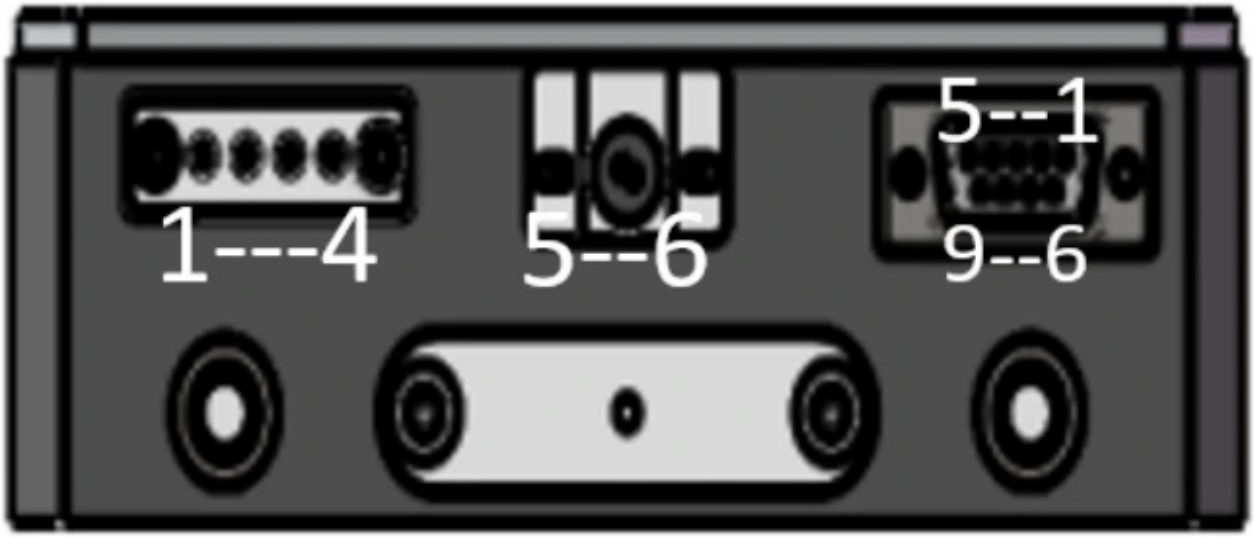
Parameter	Unit	Min.	Typ.	Max.
Operating temperature	°C	15	25	35
Storage temperature	°C	-20	—	50
Humidity	%	<70% at 25°C		
Cooling options	-	Water cooling		
Water tube dimensions	—	10*6.5mm		
Flow rate	L/min	10		
Pin soldering time	s	<10		
Soldering temperature	°C	<280		

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.