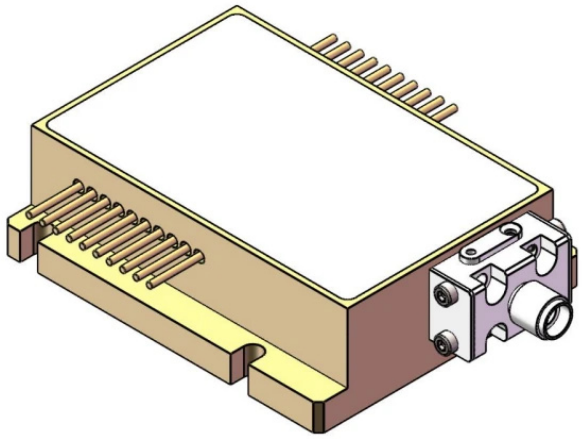
808 / 640 nm · 30 / 0.5 W Fiber-coupled semiconductor laser

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±10 / 640±10 nm
Output power class	30 / 0.5 W
Operating voltage	5.6 / 2.25 V
Operating current	11.8 / 0.9 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	NTC	11	808+
2	NTC	12	-
3	PD+	13	-
4	PD-	14	-
5	Optical switch +	15	-
6	Optical switch −	16	-
7	Normally closed	17	-
8	Normally open	18	808-
9	-	19	640+
10	-	20	640-

Optoelectronic parameters

Parameter	Unit	Typ. 808 nm	Typ. 640 nm
Center wavelength	nm	808±10	640±10
Output power class	W	30	0.5
Threshold current	A	1.8	0.55
Operating voltage	V	5.6	2.25
Operating current	A	11.8	0.9
Slope efficiency	W/A	2.94	1.11
Electrical-to-optical efficiency	%	45	22

Fiber specifications

Parameter	Unit	Value
Fiber core diameter	μm	200/400
Fiber numerical aperture	-	0.22
Fiber length	m	-

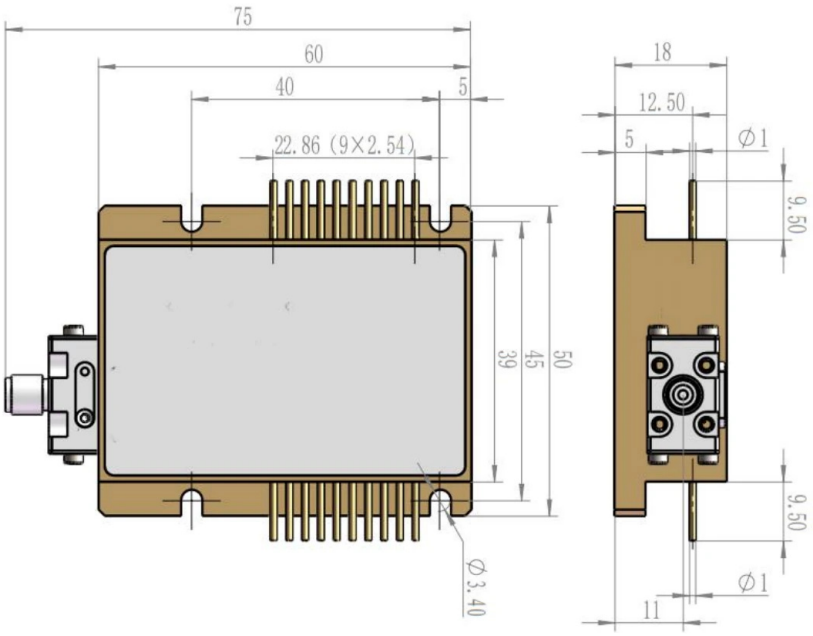
Parameter	Unit	Value
Optical fiber interface	-	SMA905, detachable

Environment & mounting

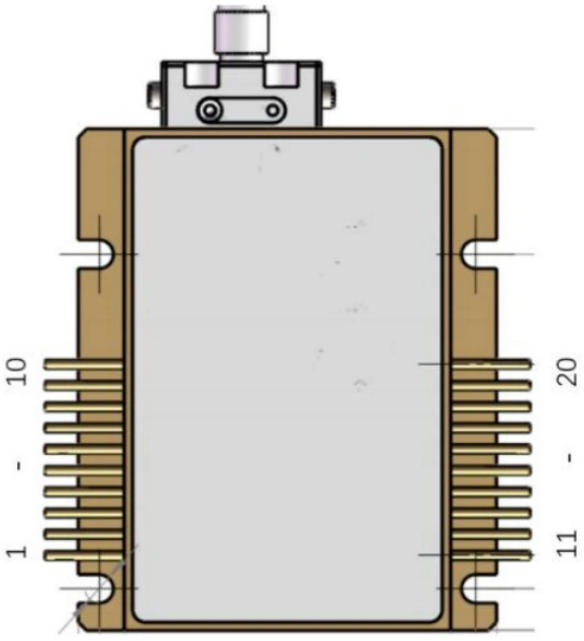
Parameter	Unit	Min.	Typ.	Max.
Operating temperature	°C	15	25	35
Storage temperature	°C	-20	—	50
Humidity	%	<70% at 25°C		
Cooling options	-	Conduction cooling		
Pin soldering time	s	<10		
Soldering temperature	°C	<280		

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.