

# 808nm 2W Fiber Coupling Laser Module

**Model: AL0808F2000P04-X-X**



## Features :

- Output power 2000mW
- Fiber core diameter 50um
- 0.22N.A
- Center wavelength 808nm

## Application :

- Printing

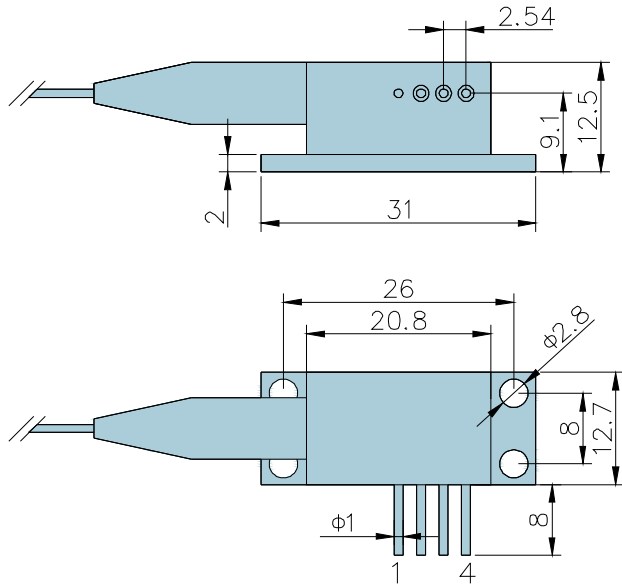
## Absolute maximum ratings

item	Symbol	Unit	Absolute ratings
Reverse voltage	$V_{re}$	V	2
Operating temperature	$T_{op}$	°C	10~30
Storage temperature	$T_{st}$	°C	-20~80
Lead soldering temperature	$T_{ls}$	°C	260
Lead soldering time	t	sec.	10

## Electro-Optical Characteristics( $T_c=+25\text{ }^\circ\text{C}$ ):

Typical parameter		symbol	Unit	Min	Typ	Max
Optical parameter	Operating power	$P_o$	mW	1000	—	—
	Center wavelength	$\lambda_c$	nm	806	808	810
	Spectrum FWHM	$\Delta\lambda$	nm	—	—	3
	Temp coefficient	-	nm/°C	—	~0.3	—
Fiber parameter	Core diameter	$W_c$	um	—	50	—
	Numerical aperture	NA	-	—	0.22	—
	Connector type	ST, SC				
Electronic parameter	Operating current	$I_{op}$	A	—	2500	2800
	Threshold current	$I_{th}$	A	—	0.20	—
	Slope Efficiency (dP/dI)	$\eta_D$	W/A	—	0.80	—
	Operating voltage	$V_{op}$	V	—	1.8	—

**Outline Drawings (in mm):**



PIN	1	2	3	4
	LD+	LD-		

**Precaution:**

- (1) The laser diodes should be handled in the same manner as ordinary semiconductor device to prevent the electro-static damages. For safety keeping and carrying, the modules should be packaged with ESD proof material. For assembling, the workbench, the soldering iron and the human body should be grounded.
- (2) Please pay special attention to the atmosphere condition because the dew on the module may cause some damages.
- (3) Under such a strong vibration environment as in automobile, the performance and reliability are not guaranteed.
- (4) A voltage stabilizer should be taken into consideration for the power supply, and shock voltage should be avoided during the process of switching on and off of the supply in order to prevent the device from damaging.
- (5) Pay attention to the dust polluting. The device may be damaged when operating in atmosphere because the dust may be absorbed onto the region of lighting under the action of electric field.
- (6) Clean surface of optical fiber before using.
- (7) Optical fiber bending diameter must be 300 times wider than the diameter of the optical fiber.

**Warning:** Direct exposure of one's eyes to the laser beam or long time exposure of one's skin to the beam must be avoided.