

830nm Multimode Narrow Linewidth Laser Module of NLO Series



DESCRIPTION

The narrow linewidth laser module is a special product of our company. It is equipped with standard input and output interfaces, which can be easily embedded into the user's whole system to achieve very stable narrow linewidth laser output. The product has built-in optimized optical feedback power stabilization module and Tec refrigeration module, which makes the product have good spectral characteristics and power stability characteristics. Customized and secondary development services can be provided according to customer requirements.

FEATURES

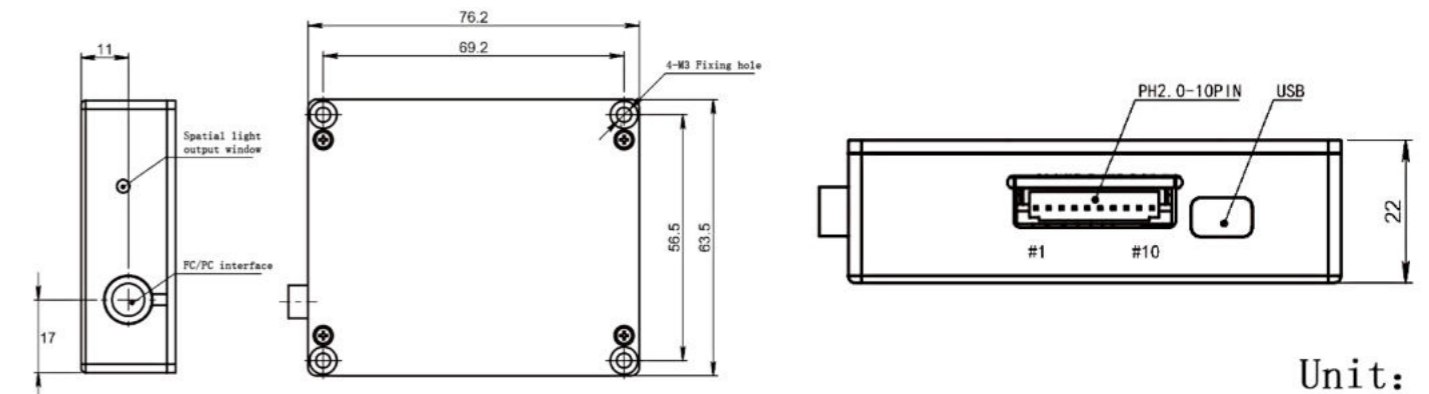
- Wavelength stability $\pm 0.007\text{nm} / ^\circ\text{C}$
- Power stability $<\pm 1.0\%$
- Low power consumption, typical advantages $<5\text{W}$
- Small size, $76.2 \times 63.5 \times 22\text{mm}$
- Optional USB control interface, hardware lock

APPLICATION

- Confocal microscope
- Raman spectrometer
- Fluorescence Spectrometer
- Up-conversion material
- Laser particle size analyzer

Model	CL830-MIW-500mW-NLO005	CL830-MIF(FP)-500mW-NLO006	
Optical Parameter	Central Wavelength (nm)	830	830
	Wavelength Tolerance (nm)	± 0.5	± 0.5
	Output Power (mW)	500	500
	Line Width (nm)	<0.1	<0.1
	Wavelength Stability	$\pm 0.007\text{nm} @ 8\text{H Typ}$	$\pm 0.007\text{nm} @ 8\text{H Typ}$
	Power Stability	$\pm 1.0\% @ 8\text{H}$	$\pm 1.0\% @ 8\text{H}$
	Side Mode Rejection Ratio (dB)	40	40
	Power Adjustment Range	0~100%	0~100%
System Parameter	Preheat Time (Min)	15	15
	Fiber Interface	Space Light	FC/PC
	Control Interface	PH2.0-10P, USB	PH2.0-10P, USB
	Adaptive Optical Fiber	105 μm , 0.22NA	105 μm , 0.22NA
	Power Input	4.9V-5.1V @2A	4.9V-5.1V @2A
	System Power Consumption (W)	<5	<5
	Storage Temperature ($^\circ\text{C}$)	0~55	0~55
	Storage Humidity (RH)	0~80%	0~80%
	Operating Temperature ($^\circ\text{C}$)	10~35	10~35
	System Weight (g)	150	150
	System Size (mm)	76.2 \times 63.5 \times 22	76.2 \times 63.5 \times 22

OUTLINE SIZE(mm)



Unit: mm

