

785nm 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.

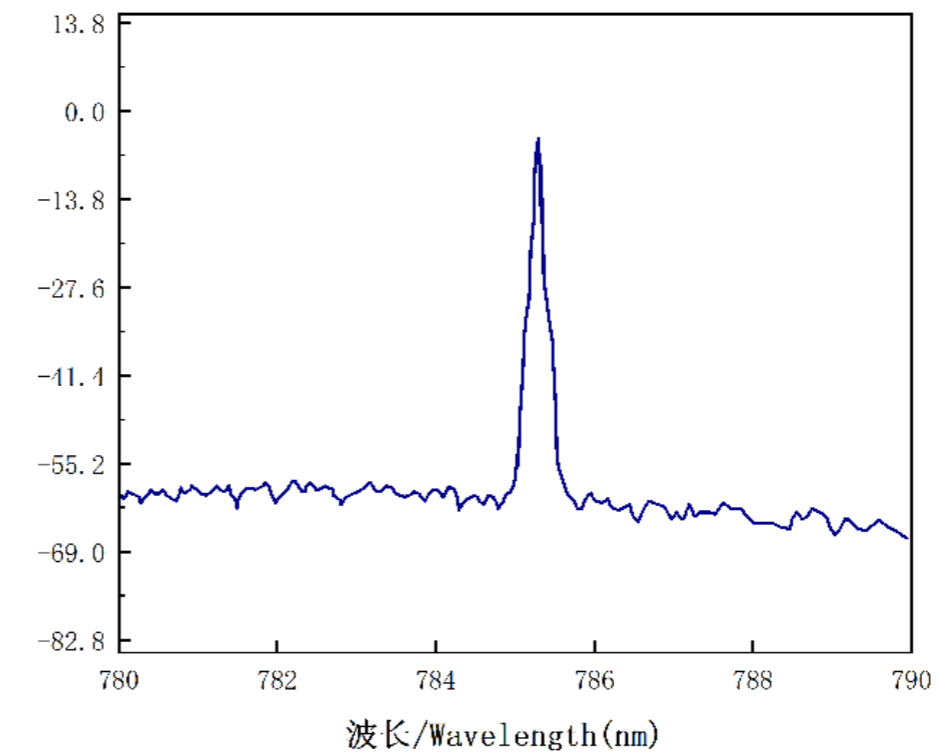
FEATURES

- 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

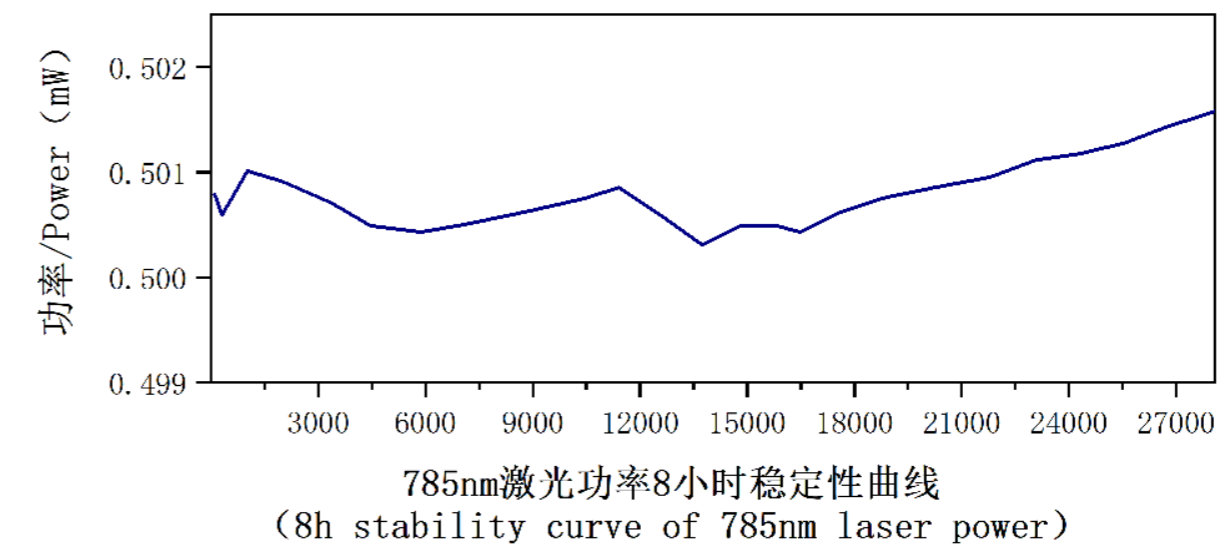
APPLICATIONS

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

CHARACTERISTICS OF 785nm LASER (25°C)



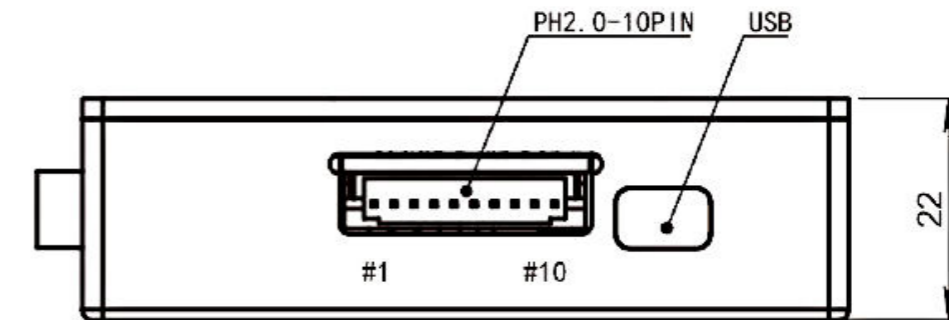
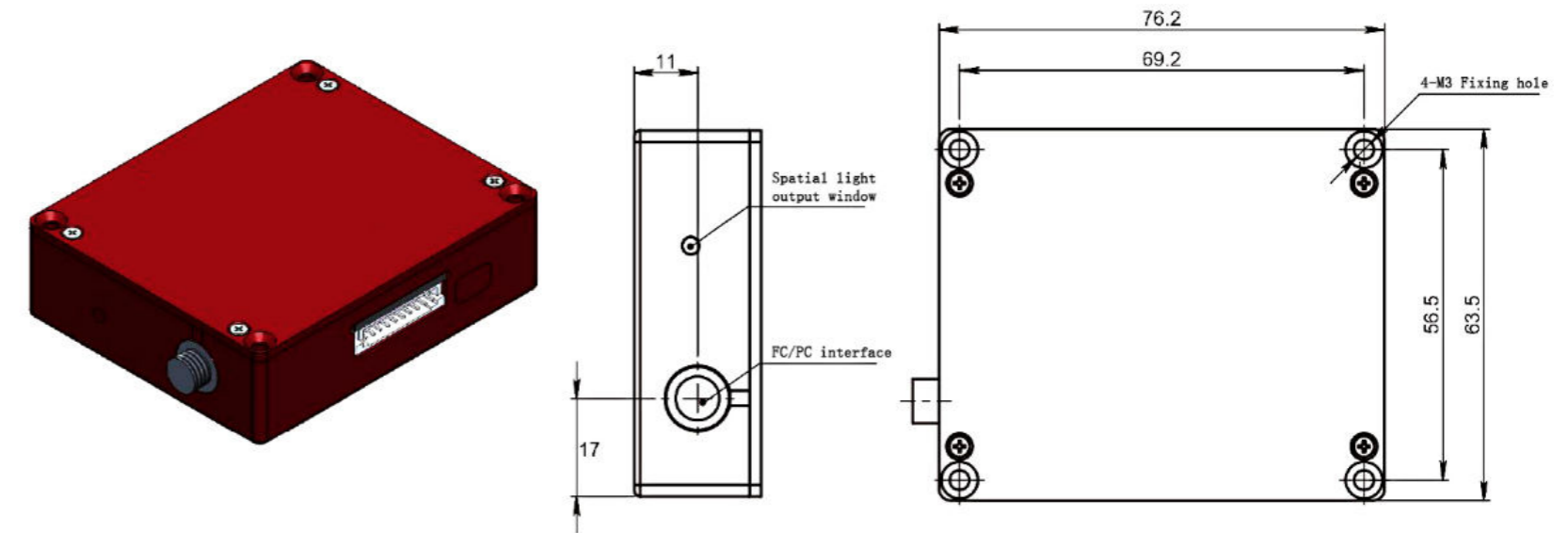
785nm激光光谱图 (边模抑制比 $>40\text{dB}$)
785nm laser spectrum (Side mode suppression ratio $> 40\text{dB}$)



PARAMETERS

Model	CL785-MIW-500mW-NLO001	CL785-MIF(FP)-500mW-NLO002
Central Wavelength (nm)	785	785
Wavelength Tolerance (nm)	±0.5	±0.5
Output Power (mW)	500	500
Optical Parameter	Line Width (nm)	<0.1
	Wavelength Stability	± 0.007nm @ 8H Typ
	Power Stability	±1.0%@8H
	Side Mode Rejection Ratio (dB)	40
	Power Adjustment Range	0~100%
Preheat Time (Min)	15	15
Fiber Interface	Space Light	FC/PC
Control Interface	PH2.0-10P, USB	PH2.0-10P, USB
Adaptive Optical Fiber	105μm, 0.22NA	105μm, 0.22NA
Power Input	4.9V-5.1V @2A	4.9V-5.1V @2A
System Parameter	System Power Consumption (W)	<5
	Storage Temperature (°C)	0~55
	Storage Humidity (RH)	0~80%
	Operating Temperature (°C)	10~35
	System Weight (g)	150
System Size (mm)	76.2 × 63.5 × 22	76.2 × 63.5 × 22

OUTLINE SIZE(mm)



Unit: mm

