NLMO Series Single Mode Narrow Linewidth Laser

Key Features

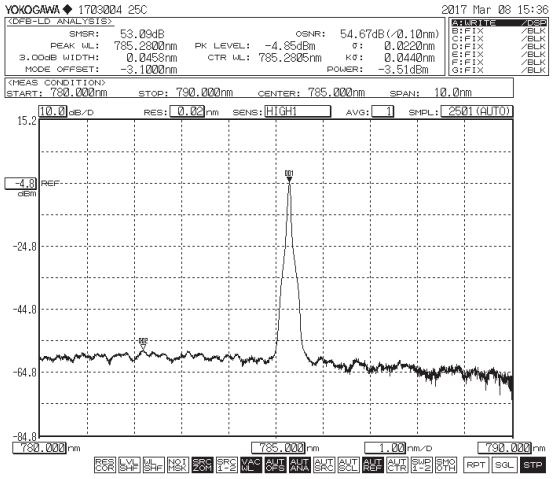
- Excellent wavelength stability ±7pm@4h
- Power stability < ±2%
- Low power consumption, typical < 5W
- Compact design, easily integrated

Applications

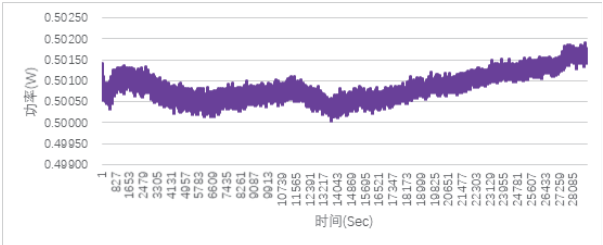
Raman spectroscopy

Laser-induced fluorescence

Technical Specifications



785nm laser spectrum（SMSR＞40dB）



785nm power stability@4h

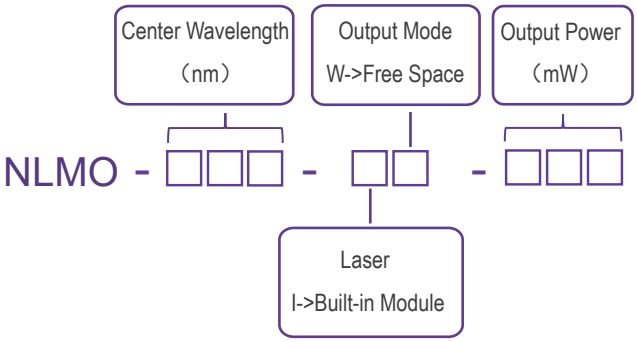
Optical Parameters		
Center Wavelength (nm)	785	1064
Output Power (mW)	100	300
Wavelength Tolerance (nm)	±0.5	
Linewidth (nm)	<0.1	
Wavelength Stability	±7pm@4h Typ.	
Power Stability	±2% @4h Typ.	
SMSR(dB)	>40	35-45
System Parameters		
Adjustbility % Full Power	0~100%	
Warm up Time (min)	15	
Control Interface	PH2.0-10P , USB	
Supply Voltage	5VDC/2A	
Power Consumption	<5W Typ.	
Storage Humidity	0~80% RH	
Storage Temperature (℃)	0~55	
Operating Temperature (℃)	10~35 (heat sink is required)	
Weight (g)	<150	
Dimensions (mm)	76.2×63.5×22	

All the data in the above table are the typical values obtained from the tests at room temperature of 25℃, and the final data is subject to the final test report.

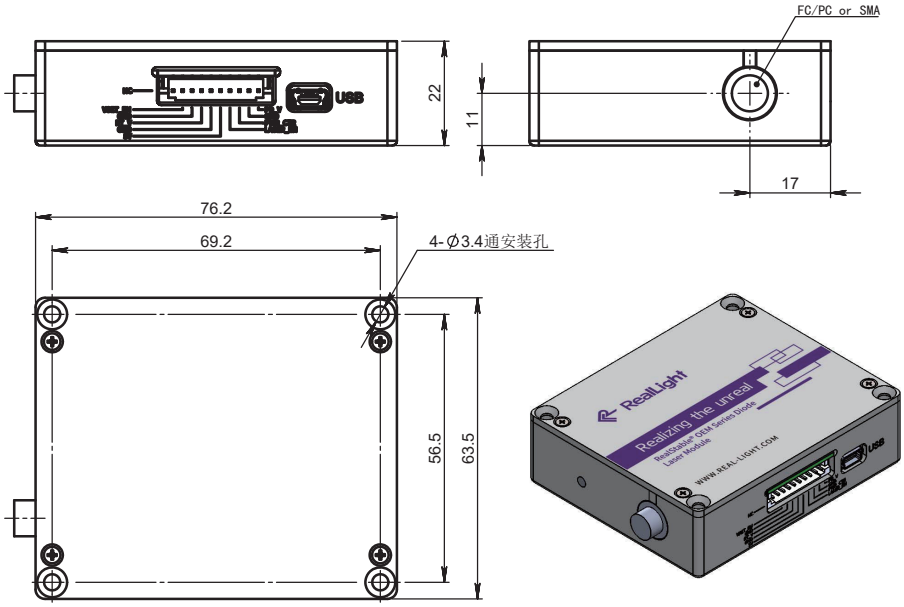
Ordering Information

Wavelength (nm)	Output Power (mW)	Part Number
785	100	NLMO-785-IW-100
1064	300	NLMO-1064-IW-300

Part Numbering Schema



Mechnical Drawings (mm)



Pin Descriptions		
PIN	Function	Description
1	NC	NC
2	VSET_ENABLE	Set to low-level to control power through PIN8, high-level or suspend to disable LD
3	GND	Input Power Ground
4	RTV	Rt signal level, 1.25V for 25℃
5	GND	Input Power Ground
6	+5V	5VDC/2A
7	LASER ENABLE	Set to high-level to enable the laser, low-level or suspend to disable LD
8	Power Control	Apply 0-1.2V to control output power (0-100% full power adjustability)
9	GND	Signal Ground
10	PDV	PD feedback signal, 0.5V for 100mW/350mW