

NLMO Series Multi-mode Narrow Linewidth Laser



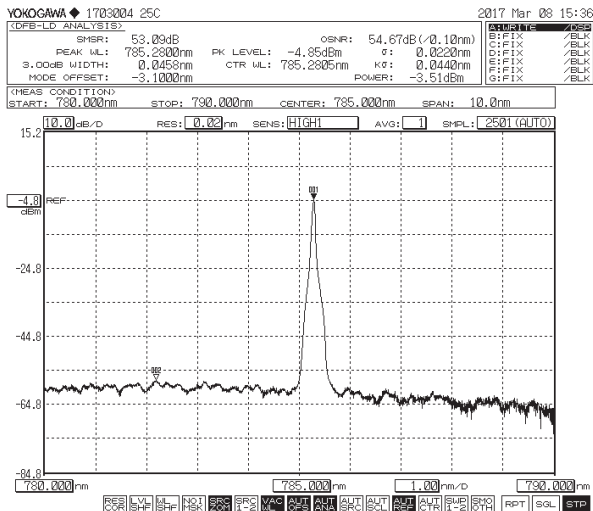
Key Features

- ◆ Excellent wavelength stability $\pm 7\text{pm}@4\text{h}$
- ◆ Power stability $< \pm 2\%$
- ◆ Low power consumption, typical $< 5\text{W}$
- ◆ Compact design, easily integrated

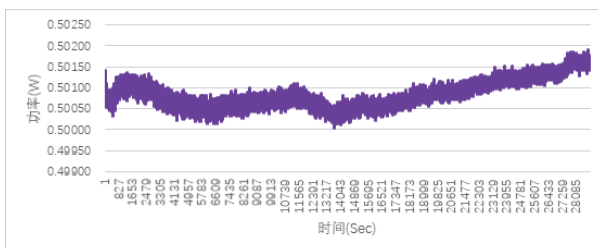
Applications

Raman spectroscopy
Laser-induced fluorescence

Technical Specifications



785nm laser spectrum (SMR > 40dB)



785nm power stability@4h

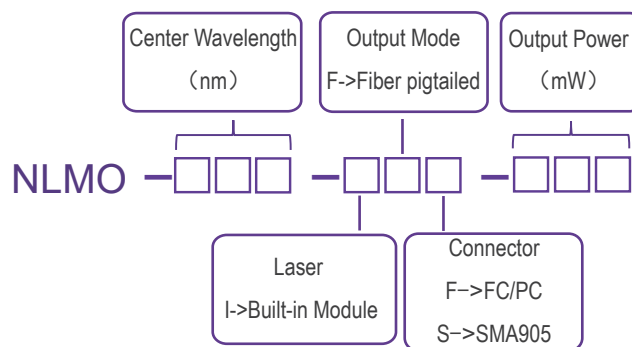
Optical Parameters							
Center Wavelength (nm)	532*	638	785	808	830	976	1064
Output Power (mW)	100	600	500	600	600	800	800
Wavelength Tolerance (nm)	± 0.5						
Linewidth (nm)	<0.05	<0.1	<0.1	<0.3	<0.1	<0.3	<0.1
Wavelength Stability	$\pm 7\text{pm}@4\text{h}$ Typ.						
Power Stability	$\pm 2\%$ @4h Typ.						
SMR	-	30dB	40dB	30dB	40dB	30dB	40dB
System Parameters							
Adjustibility % Full Power	0~100%						
Warm up Time (min)	15						
Control Interface	PH2.0-10P						
Connector	FC/PC, SMA905						
Output Fiber	105 μm , 0.22 NA						
Supply Voltage	5V DC@ 2 A						
Power Consumption	<5W Typ.						
Storage Humidity	0~80% RH						
Storage Temperature ($^{\circ}\text{C}$)	0~55						
Operating Temperature ($^{\circ}\text{C}$)	10~35 (heat sink is required)						
Weight (g)	<150						
Dimensions (mm)	76.2×63.5×22						

*532nm is diode pumped solid-state laser.

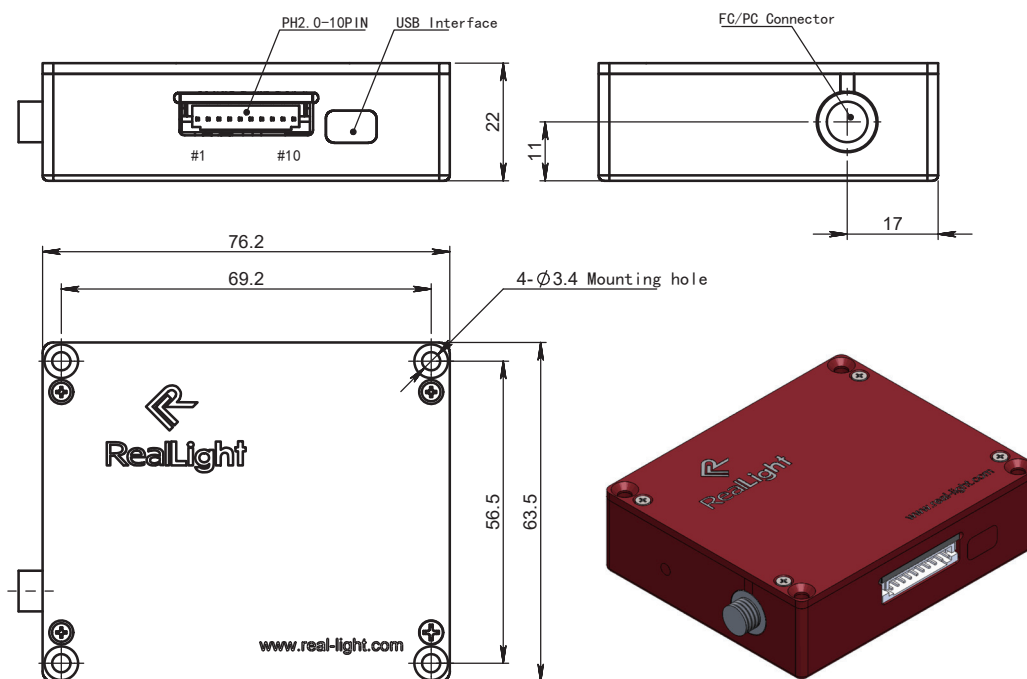
Ordering Information

Wavelength (nm)	Output Power (mW)	Part Number	Connector
532	100	NLMO-532-IF(F)-100	FC/PC
	100	NLMO-532-IF(S)-100	SMA905
638	600	NLMO-638-IF(F)-600	FC/PC
	600	NLMO-638-IF(S)-600	SMA905
785	500	NLMO-785-IF(F)-500	FC/PC
	500	NLMO-785-IF(S)-500	SMA905
808	600	NLMO-808-IF(F)-600	FC/PC
	600	NLMO-808-IF(S)-600	SMA905
830	600	NLMO-830-IF(F)-600	FC/PC
	600	NLMO-830-IF(S)-600	SMA905
976	800	NLMO-976-IF(F)-800	FC/PC
	800	NLMO-976-IF(S)-800	SMA905
1064	800	NLMO-1064-IF(F)-800	FC/PC
	800	NLMO-1064-IF(S)-800	SMA905

Part Numbering Schema



Mechanical 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°C
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 500mW

