



NLMO Series Multi-mode Narrow Linewidth Laser

The NL series narrow linewidth diode lasers are RealLight's self-developed wavelength-stabilized lasers, deliver high output power and excellent stability at 532nm, 638nm, 784nm, 785nm, 808nm, 830nm, 981nm or 1064nm output wavelengths, with power ranging from 100mW to 800mW.

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

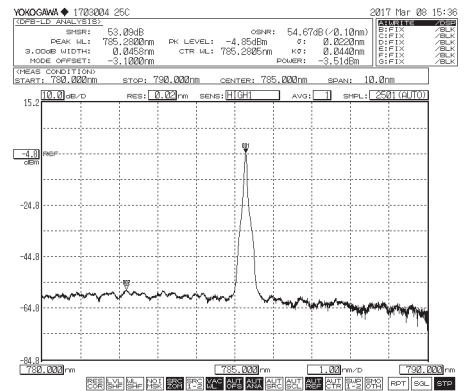
Technical Specifications

Optical Parameters							
Center Wavelength (nm)	532*	638	785	808	830	981	1064
Output Power (mW)	100	500	600	600	600	800	800
Wavelength Tolerance (nm)	±0.5						
Linewidth (nm)	<0.1	<0.1	<0.1	<0.3	<0.1	<0.3	<0.1
Wavelength Stability	±5pm@4h typ.	±7pm@4h typ.					
Power Stability	±2% @4h typ.						
SMSR	-	>35	>40				
System Parameters							
Adjustbility % Full Power	0~100%						
Warm up Time (min)	15						
Control Interface	-	PH2.0-10P , USB					
Connector	FC/PC , SMA905						
Output Fiber	105 μm , 0.22 NA						
Supply Voltage	5VDC/2A						
Power Consumption	<5W typ.						
Storage Humidity	0~80% RH						
Storage Temperature (°C)	0~55						
Operating Temperature (°C)	10~35 (heat sink is required)						
Weight (g)	<150						
Dimensions (mm)	76.2×63.5×22						

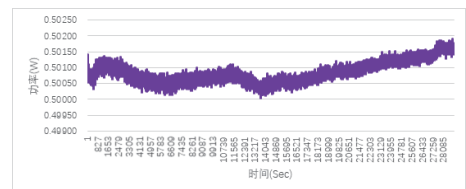
1. *532nm is diode pumped solid-state laser.
2. All the data in the above table are the typical values obtained from the tests at room temperature of 25°C , and the final data is subject to the final test report.

Applications

- Raman spectroscopy
- Laser-induced fluorescence



785nm laser spectrum (SMSR $> 40\text{dB}$)



785nm power stability@4h

