



NLS Series Single mode Narrow Linewidth Laser

Key Features

- ◆ Linewidth < 0.1nm
- ◆ Excellent wavelength stability $\pm 7\text{pm}@4\text{h}$
- ◆ SMSR is better than 40dB
- ◆ Built-in TEC, power stability $\pm 2\%$
- ◆ Contains PC control, emergency stop button functions
- ◆ Raman analysis software available

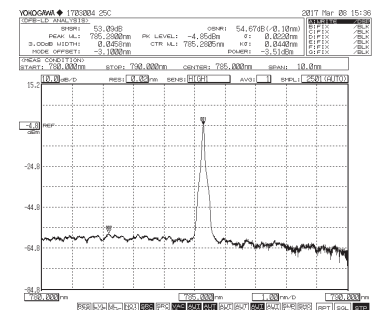
Technical Specifications

Optical Parameters								
Center Wavelength (nm)	405	450	520	638	650	532*	785	1064
Output Power (mW)	100	100	100	100	100	100	100	300
Wavelength Tolerance (nm)	±5	±10				±0.5		
Linewidth (nm)	<3					<0.1		
Wavelength Stability (typ., pm@4h)	-					±5	±7	
Power Stability (typ., @4h)	±2%					<3%(RMS)	±2%	
SMSR	-					-	35-45	
System Parameters								
Adjustbility % Full Power	0~100%							
Warm up Time (min)	15							
Modulation Input	Analog signal 100Hz							
Control Interface	USB , BNC							
Connector	SMA905 , FC/PC							
Output Fiber	105 μm , 0.22 NA							
Supply Voltage	5VDC/2A							
Power Consumption	<7 W typ.							
Storage Humidity	10~60							
Storage Temperature (°C)	0~70% RH							
Operating Temperature (°C)	10~35							
Weight (kg)	1.2							
Dimensions (mm)	180×102×180.2							

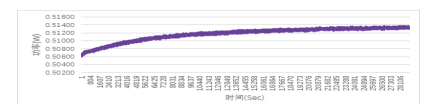
1. *532nm is diode pumped solid-state laser.
2. Higher power options available upon request.
3. All the data in the above table are the typical values obtained from the tests at room temperature of 25 °C , and the final data is subject to the final test report.

Applications

- Raman spectroscopy
- Laser-induced fluorescence
- Pumping source



785nm laser spectrum (SMSR>40dB)

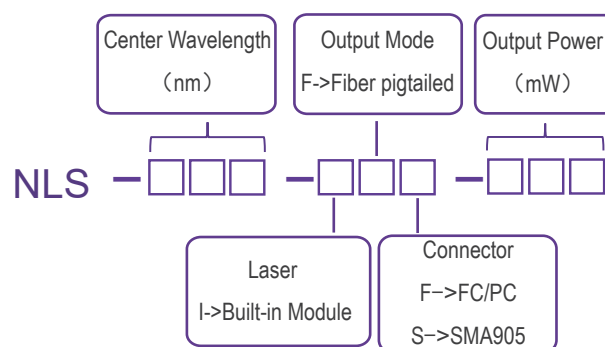


785nm power stability@4h

Ordering Information

Wavelength (nm)	Output Power (mW)	Part Number	Connector
405	100	NLS-405-IF(F)-100	FC/PC
	100	NLS-405-IF(S)-100	SMA905
450	100	NLS-450-IF(F)-100	FC/PC
	100	NLS-450-IF(S)-100	SMA905
520	100	NLS-520-IF(F)-100	FC/PC
	100	NLS-520-IF(S)-100	SMA905
638	100	NLS-638-IF(F)-100	FC/PC
	100	NLS-638-IF(S)-100	SMA905
650	100	NLS-650-IF(F)-100	FC/PC
	100	NLS-650-IF(S)-100	SMA905
532	100	NLS-532-IF(F)-100	FC/PC
	100	NLS-532-IF(S)-100	SMA905
785	100	NLS-785-IF(F)-100	FC/PC
	100	NLS-785-IF(S)-100	SMA905
1064	300	NLS-1064-IF(F)-300	FC/PC
	300	NLS-1064-IF(S)-300	SMA905

Part Numbering Schema



Mechanical Drawings (mm)

