

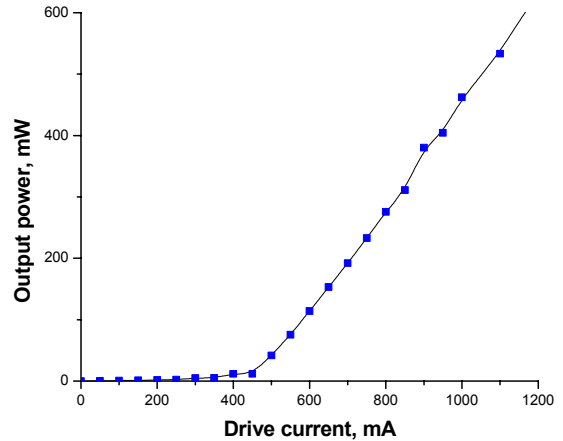
Narrow-spectra high-power free space 976 nm laser module

Key design features

- High optical power, up to 550 mW
- Narrow spectral, <0.15 nm
- Side mode suppression ratio: 40 dB
- Excellent wavelength stability and power stability
- Integrated temperature controller, laser diode current driver and safety interlock
- RS232 interface optional

Application

NS-LD05H is suitable for industry and laboratory applications requiring high-power and narrow line-width laser. Typical application includes Raman spectroscopy and frequency doubling.

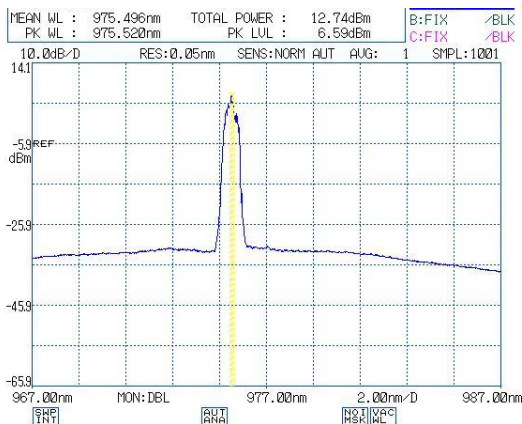


Specifications:

Description	Min	Typical	Max	Unit
Operating wavelength	972	976	985	nm
Output power	400	500	550*	mW
Optical output	Free space beam			
Spectral width (FWHM)	0.001	0.15	0.3	nm
Spontaneous emission suppression ratio	35	40	50	dB
Wavelength stability	±10	±15	±20	pm
Operating temperature	10	23	40	°C
Storage temperature	0	25	65	°C

* Higher power devices can be made to order.

Typical laser spectra measured using Ando (AQ6315A) OSA



Focused beam profile, measured at distance of 1 m from the laser module aperture

