

# Nps

## Narrowband ps lasers



### Applications

Non-linear optics

OPO pumping

Raman spectroscopy

### Features

$1064.3 \pm 0.1$  nm

7 ps

spectral width < 0.3 nm

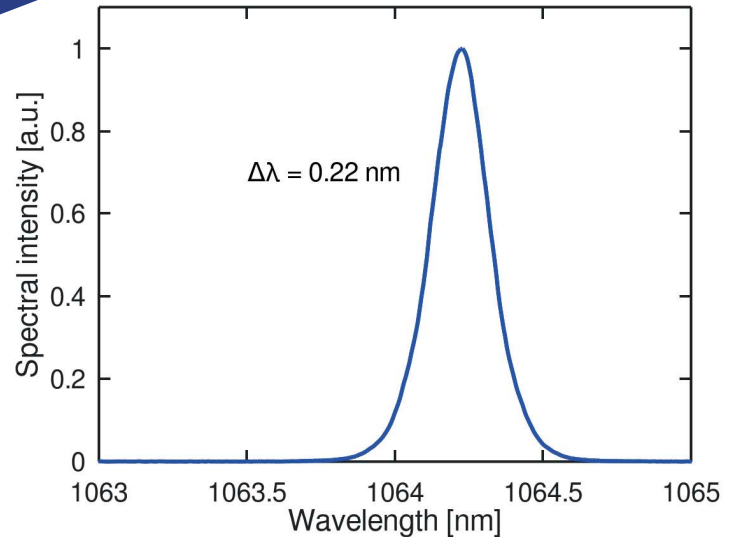
40 MHz

air-cooled and liquid-cooled versions

# Nps

## Narrowband ps lasers

The new ultrafast **Nps-1064-10** laser operates in the regime of few picoseconds pulse durations (7 ps) with average power of 10 mW at a repetition rate of 40 MHz. The transform-limited operation (spectral width < 0.3 nm) and remarkably accurate central wavelength ( $1064.3 \pm 0.1$  nm) make this laser a suitable candidate for highly efficient amplification by Nd-doped DPSS amplifiers, opening the way to applications in nonlinear optics (i.e. OPO pumping) and narrowband Raman spectroscopy.



	Nps models	
	Nps-1064-10	Custom Nps-1064-k2
Wavelength	1064.3 nm	1064.3 nm
Pulsewidth	7 ps	7 ps
Average Power	> 10 mW	> 2 W
Repetition Rate	40 MHz	40 MHz
Polarization	Linear 100:1	Linear 100:1
Spectral Width	< 0.3	< 0.3
Time-bandwidth Product	< 0.5	< 0.5
Beam Quality ( $M^2$ )	< 1.2	< 1.3
RF Side-Mode Suppression	> 50 dBc	> 50 dBc
Cooling	Contact	Air
DC IN Voltage	5 V	24 V

### OPTIONS AVAILABLE:

- Custom amplifications
- Second harmonic generation
- Beam expanding and collimating optics
- Circular polarization
- Water cooling
- Remote control cbox and software interface
- AC-DC power supply

