

Nps

Narrowband ps lasers



Applications

Non-linear optics

OPO pumping

Raman spectroscopy

Features

1064.3 ± 0.1 nm

7 ps

spectral width < 0.3 nm

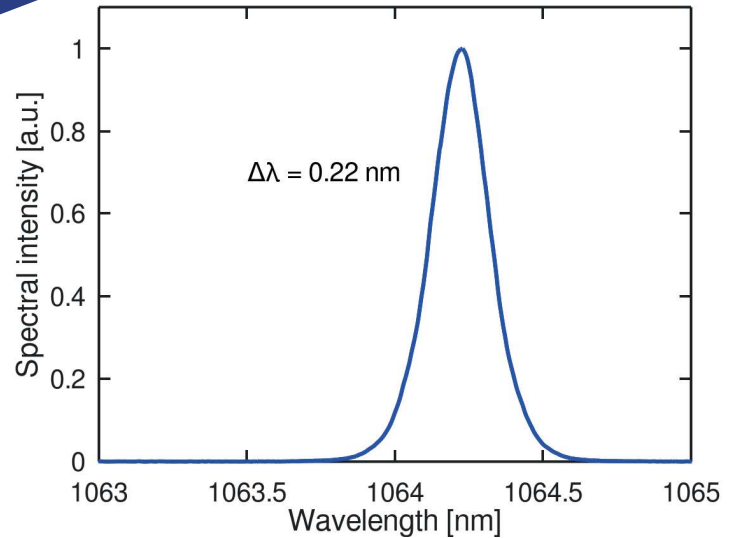
40 MHz

air-cooled and liquid-cooled versions

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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 ± 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



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