

OPPO-SP

Multichannel Broadband Tunable Ultrafast Fiber Laser

OPPO-SP is a tunable fiber laser developed specifically for Silicon Photonics and mid-infrared ultrafast nonlinear photonics research. Compared with solid-state OPO systems, OPPO-SP has decisive advantages in terms of power and pulse energy in the range beyond 2000 nm, where two-photon absorption in silicon diminishes. In addition, the system is based on an all-fiber and modular architecture, featuring excellent stability, mode-quality and cost/performance ratio.

OPPO-SP is also used by customers working in the fields of mid-infrared supercontinuum generation, and infrared material spectroscopy.

Applications :

- Medium infrared spectrum
- Pump-probe
- Medium infrared femtosecond seed
- Nonlinear optics
- Silicon photonics

Main Specification

Laser Parameters

Operating Wavelength	2000-2300 nm	Average Power Stability	<0.5%RMS(24h@25°C)
Pulse width (FWHM)	<500 fs	Pulse Energy	>3.75 nJ
Repetition Rate	80 MHz	Polarization Extinction Ratio	>15 dB
Average Power	300 mW	Output Type	PM1550 Fiber,FC/APC Connector

Electrical, Environmental and Mechanical Parameters

Power Consumption	<150 Watt	Operational Temperature Range	15-35 °C
Trigger Signal	1 V@50 Ohm	Operational Humidity Range	20-80%
Supply Voltage	100-240 VAC	Dimensions	391×298×115 mm
Weight	17 kg	Cooling	Air-cooled

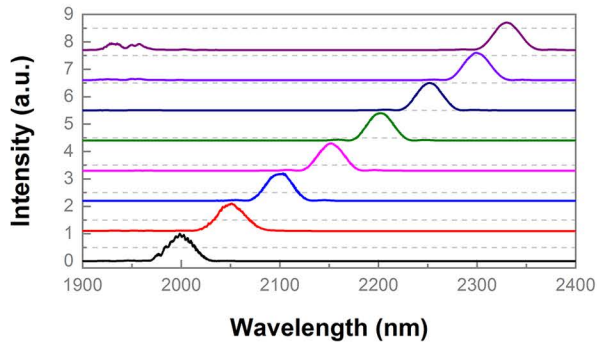


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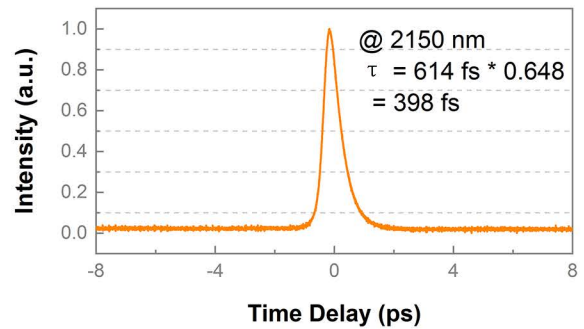
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Test Data

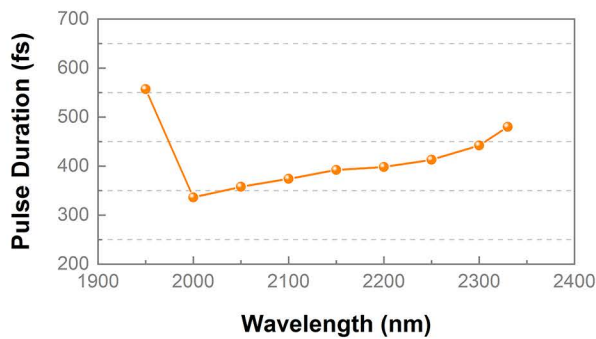
Output spectrum



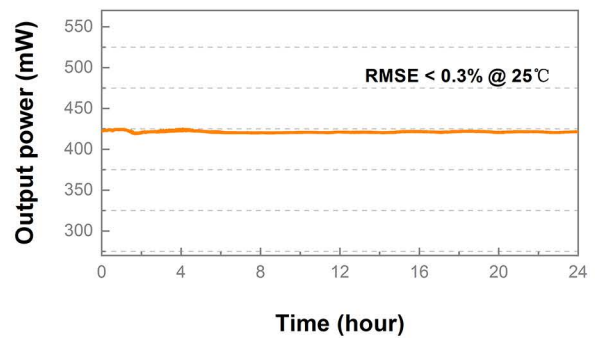
Typical output pulse width



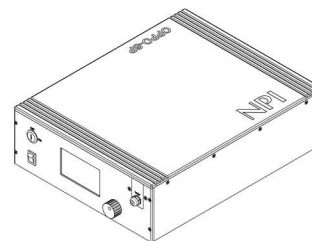
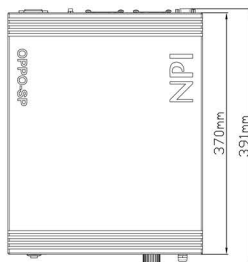
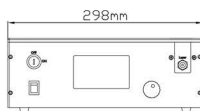
Pulse width at different wavelengths



Power stability



Machine Drawing



诺派激光 NPI Lasers
 Tel : +86-(0)25-84985077
 E-mail : sales@npilasers.com

