



1030 nm Femtosecond Fiber Laser STP1030



2023 V1

For customized projects please Contact us:

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STP1030 Femtosecond Fiber Laser

The optical path and circuit structure are highly integrated, compact and portable, especially suitable for industrial or OEM commercial system integration users.

STP1030 has a flexible range of performance parameters. The typical output wavelength is 1030 ± 5 nm, the repetition frequency range is 25 ± 1 MHz, and the pulse width is as low as 200fs.



Key Features

- Customizable wavelength
- Femtosecond level
- Linear polarization
- Diffraction-limited beam

Applications

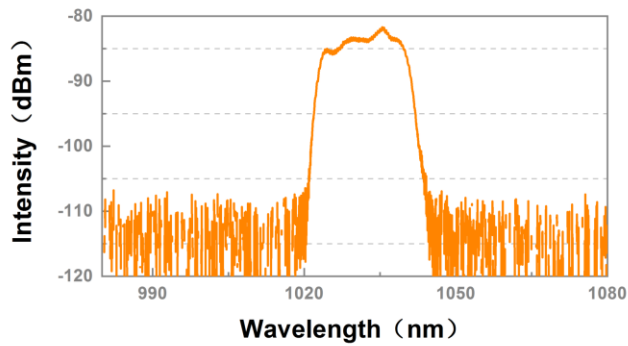
- Ultrafast Spectroscopy
- Two photon polymerization
- High speed optical sampling
- Speed of light measurement

Main Specification

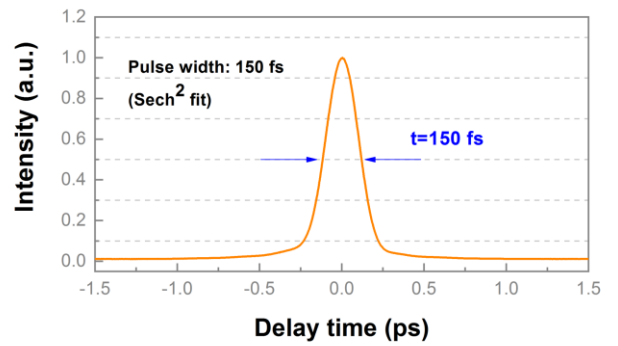
| Laser Parameters | | |
|---|------------|-------------------------------------|
| Operating Wavelength | nm | 1030 ± 5 nm |
| Single Pulse Energy | nJ | >4 |
| Pulse Width (FWHM) | fs | >200 |
| Polarization Extinction Ratio | dB | >20 |
| Repetition Rate | MHz | 25 ± 1 MHz |
| Beam Quality | | $TEM_{00}, M^2 < 1.2$ |
| Average Power | mW | >60 |
| Average Power Stability | % RMS | <0.5 (24h@25°C) |
| Output Fiber | | With collimator, spot diameter <2mm |
| Electrical, Environmental and Mechanical Parameters | | |
| Supply Voltage | VDC | 12 |
| Operational Temperature Range | °C | 15-35 |
| Operational Humidity Range | % | 20-80 |
| Weight | kg | 1.2 |
| Dimensions | mm (LxWxH) | 258 x 194 x 115 |
| Cooling | | Air-cooled |

Test Data

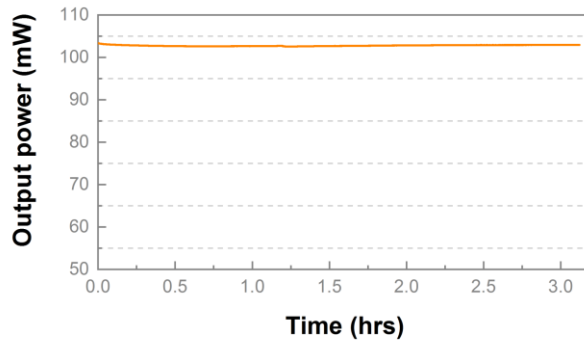
Output Spectrum



Autocorrelation Trace



Power Stability



Machine Drawing

