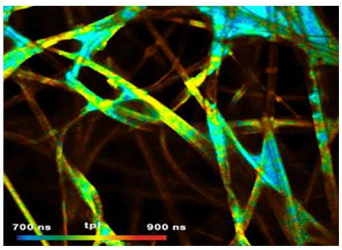
# 1μm Ultrafast Fiber Laser Seed - Blade Seed Ⅰ fs

Blade series 1um femtosecond mode-locked fiber seed laser is developed and manufactured solely by NPI Lasers. The seed has pulse width of ≤100fs , repetition rate 30MHz and average power selectable from 50 to 80mW.

Blade series 1um femtosecond mode-locked fiber seed laser is designed for SSL picosecond laser power amplification. It is suitable for any round-the-clock industrial use cases and other commercial applications.


## Key Features :

- 24/7 high reliable operation
- 10k times mode-locked test
- HASS test
- Flexible, customized desigh

## Applications :

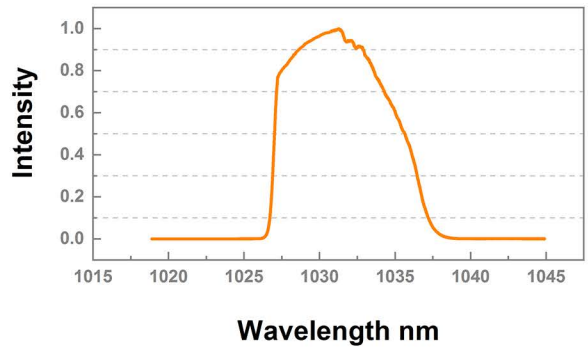
- Ultrafast laser seed
- Time-resolved fluorescence
- Laser ranging
- Supercontinuum generation

## Main Specification:

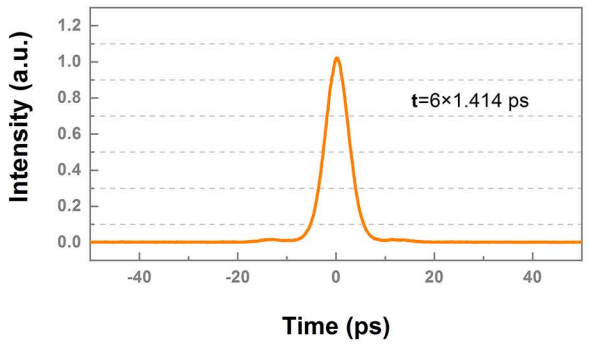
| Laser Parameters | | |
|---|---|---|
| Operating Wavelength | nm | 1030-1045 |
| Spectral Width | nm | 5-15 |
| Repetition Rate | MHz | 20±5;40±5 |
| Average Power | mW | >5 |
| Pulse width (FWHM) | fs | <10 ps(Compressable to 300 fs) |
| Average Power Stability | % RMS | <0.5 (12h@25℃) |
| Polarization Extinction Ratio | dB | >20 |
| Output Fiber | | SM PM Fiber |
| Fiber Connector | | PM980 Fiber with FC/APC Connector |
| **Electrical, Environmental and Mechanical Parameters** | | |
| Supply Voltage | VDC | 12 |
| Operational Temperature Range | ℃ | 15~35 |
| Operational Humidity Range | % | 20~80 ( Non-condensing ) |
| Storage Temperature Range | ℃ | -20~+50 |
| Storage Humidity Range | % | 20~80 ( Non-condensing ) |
| Weight Laser Head | kg | 1.2 |
| Dimensions | mm(L×W×H) | 185×127×50 |

## Test Data :

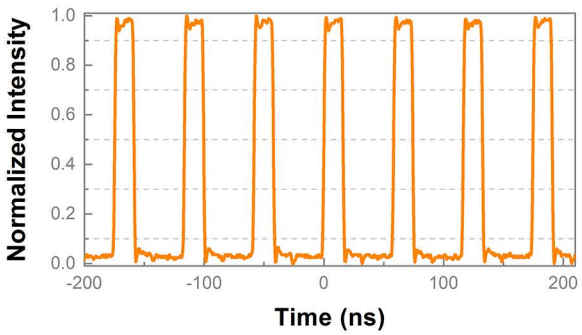
### Output spectrum



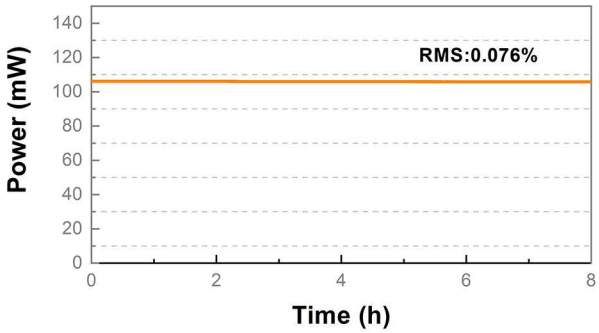

### Typical output pulse width



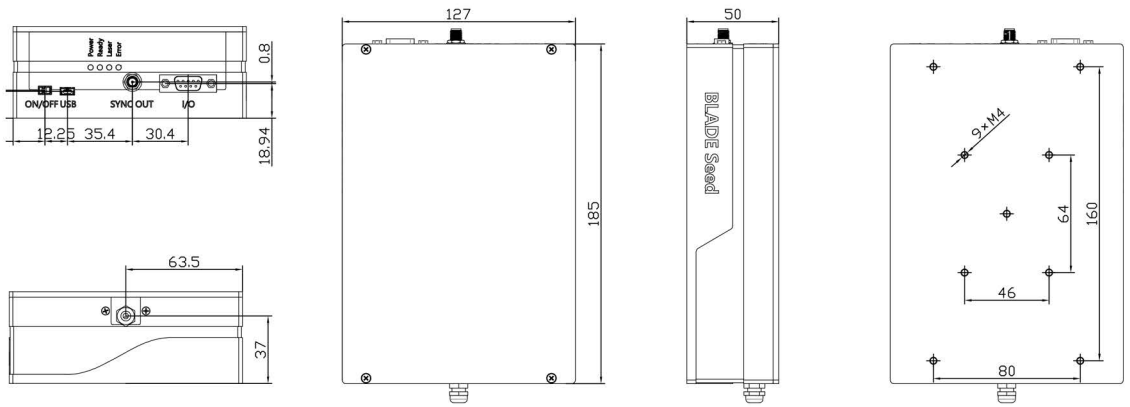

### Output pulse sequence




### Power stability




## Machine Drawing



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