

## Blade seed-ps

# 1064 nm ps Fiber Laser Seed

Blade series 1um picosecond mode-locked fiber seed laser is developed and manufactured solely by NPI Lasers. The seed has pulse width of 5-60 ps Optional, repetition rate selectable between 20-80 MHz, and average power >75mW.

Blade series 1um picosecond mode-locked fiber seed laser adopts a SESAM based oscillator structure with PM fiber. It uses NPI Lasers' own optical switch packaging technology, and integrates NPI Lasers' unique "Smart-Lock" processing and characterization technologies to ensure stability and reliability. The laser has synchronous output via TTL port and DB9 connector is available for I/O control; it also supports remote control from PC. The laser is equipped with one button power switch, and is compact and maintenance-free.

### Applications :

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

## Main Specification

### Laser Parameters

Operating Wavelength	1064.3±0.15 nm	Average Power Stability	<0.5% RMS(12h@25°C)
Spectral Width	< 0.5 nm	Polarization Extinction Ratio	>20 dB
Pulse width (FWHM)	5-60 ps Optional	Output Type	PM SM fiber (>35cm),
Repetition Rate	20-80 MHz		FC/APC connector
Average Power	>75 mW (Adjustable or non adjustable)		

### Electrical, Environmental and Mechanical Parameters

Supply Voltage	12 VDC	Weight	1.2 Kg
Operational Temperature Range	15-35 °C	Dimensions	185×127×50 mm
Operational Humidity Range	20~80 °C	Cooling	Air cooling

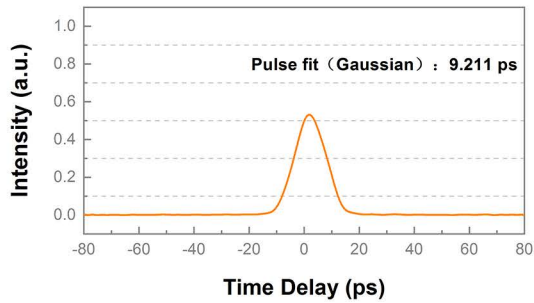


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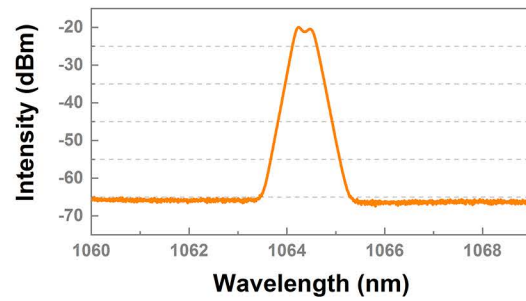
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### Test Data

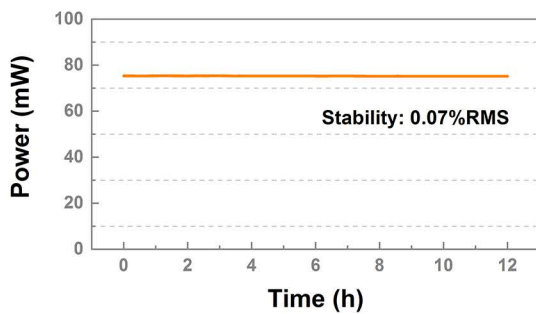
Typical output pulse width



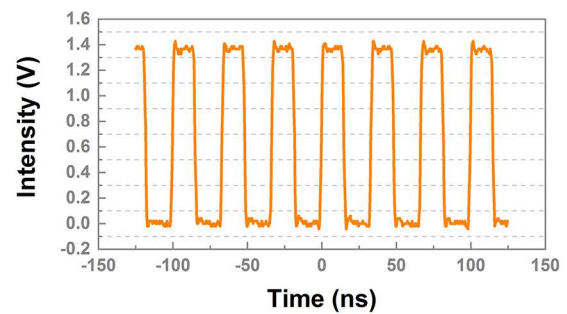
Output spectrum



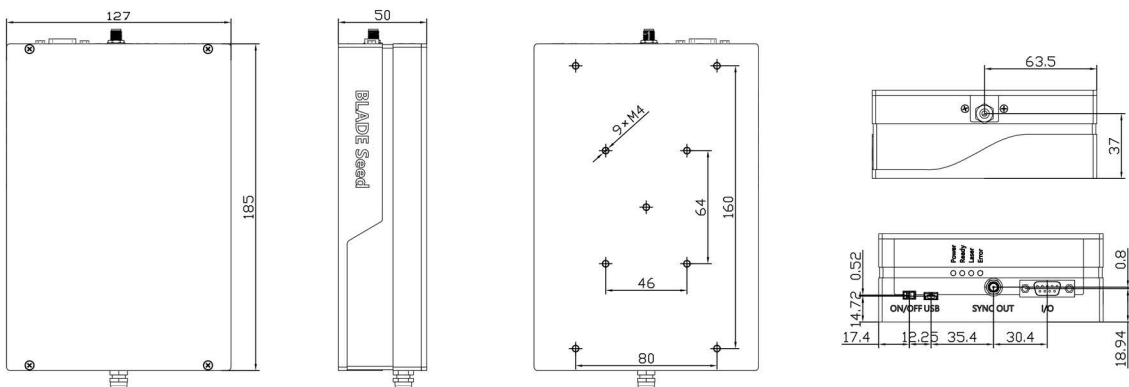
Output power stability



Synchronized output pulse



### Machine Drawing



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