

# Blade seed-AOM

## 1064 nm Fiber Laser Seed

Blade seed-AOM is a 1um picosecond fiber seed laser with pulse picker. It has pulse width of  $10\pm 2\text{ps}$ ;  $60\pm 5\text{ps}$ , repetition rate range between 20k~15MHz and pulse energy of  $>30\text{ nJ}$ ; it also supports burst mode output.

Blade seed-AOM constitutes an integrated system of seed laser oscillator, fiber amplifier, and acousto-optic modulator. The laser system is all-fiber, and has undergone vigorous temperature cycling and vibration tests, ensuring power stability and long-term 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.

Blade seed-AOM with pulse picker is unique with its compact size, high performance to cost ratio, and is suitable for customers in early design stage for SSL picosecond laser, and round-the-clock industrial OEM applications.

### Applications :

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

## Main Specification

Laser Parameters	10ps	60ps
Operating Wavelength	1064.3±0.15 nm	
Spectral Width	<0.5 nm	<0.2 nm
Pulse width (FWHM)	10±2 ps	60±5 ps
Repetition Rate	20kHz-15MHz (PRR=PRROSC/N, N=2,...,1500)	
Pulse Energy	>30 nJ (@<2 MHz)	
Average Power Stability	<0.5% RMS (12h@25°C)	
Output Type	Optical fiber output optional collimation isolation module	

### Electrical, Environmental and Mechanical Parameters

Supply Voltage	12 VDC	Weight	1.2 Kg
Operational Temperature Range	15-35 °C	Dimensions	240×105×85, 226×105×115 mm
Operational Humidity Range	20~80 °C	Cooling	Air cooling



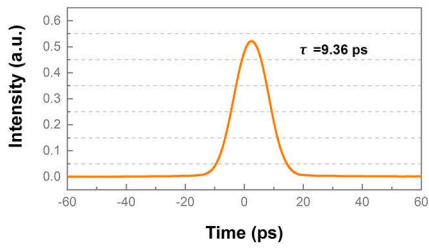
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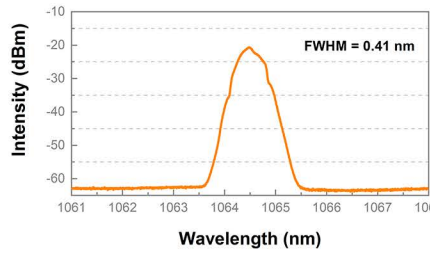
### Test Data

10 ps

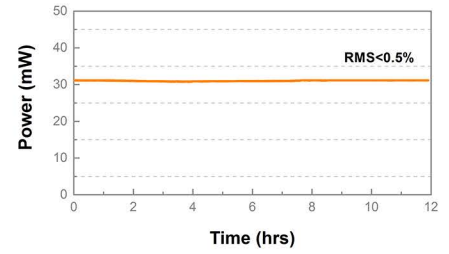
Typical output pulse width



Output spectrum

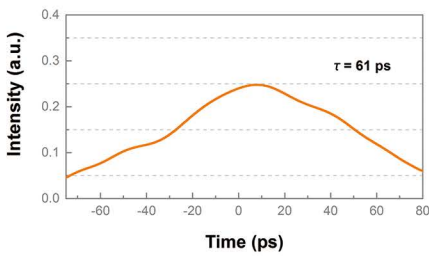


Output power stability

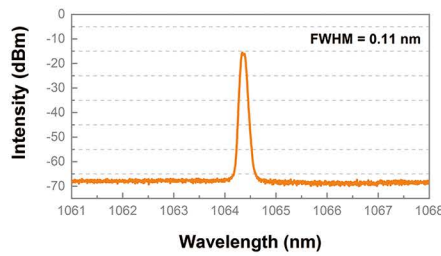


60 ps

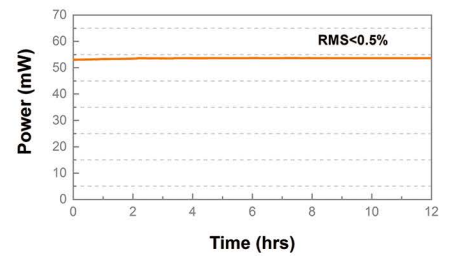
Typical output pulse width



Output spectrum



Output power stability



### Machine Drawing

