

Rainbow 532 OEM

532 nm Ultrafast Fiber Laser

Rainbow 532 OEM is a high-performance 532 nm (Green) picosecond fiber laser that features excellent power stability and beam quality. The laser is highly compact, can be remotely controlled via software, and is well-suited for setting up optical and spectroscopic systems.

Rainbow 532 OEM operates with a default repetition rate of 50 MHz (20-50 MHz optional) and an average power of >20mW. A fiber-pigtailed version is available as an option. To access more power, our Rainbow 1064 Dichro and Rainbow 532 HP can provide 532 nm picosecond pulses from several hundred of mW to several Watts.

Rainbow 532 OEM is widely adopted in TCSPC, SHG/THG imaging, and other ultrafast and nonlinear optics applications.

Applications:

- Fluorescence lifetime imaging/TCSPC
- SHG/THG imaging
- Nonlinear optics
- General-purpose ultrafast source

Main Specification

Laser Parameters

Central Wavelength	532±10 nm	Average Power Stability	<0.5% RMS (12hrs@25°C)
Pulse Width (FWHM)	<15 ps	Beam Quality	TEM ₀₀ , M ² <1.3
Repetition Rate	50 MHz (20-50 MHz optional)	Polarization Extinction Ratio	>20 dB
Average Power	>20 mW	Output Type	Spatially collimated output

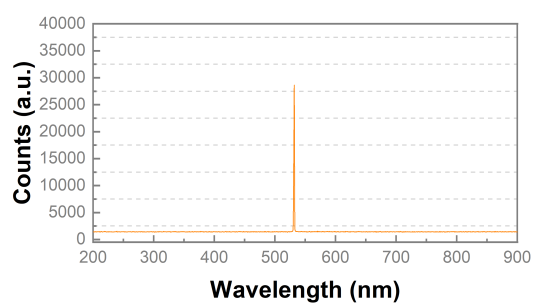
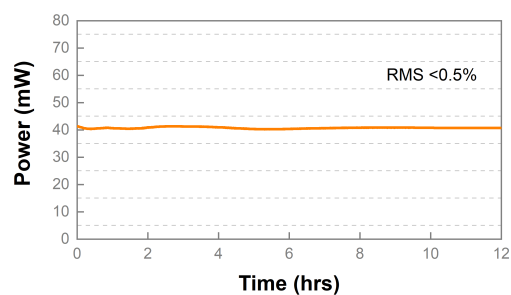
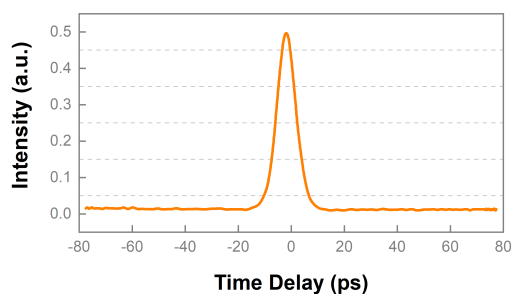
Electrical, Environmental and Mechanical Parameters

Supply Voltage	12 VDC	Dimensions	182.5×140×73 mm
Operational Temperature Range	15-35°C		204×127×70 mm
Operational Humidity Range	20~80% (non-condensing)	Cooling	Air cooling

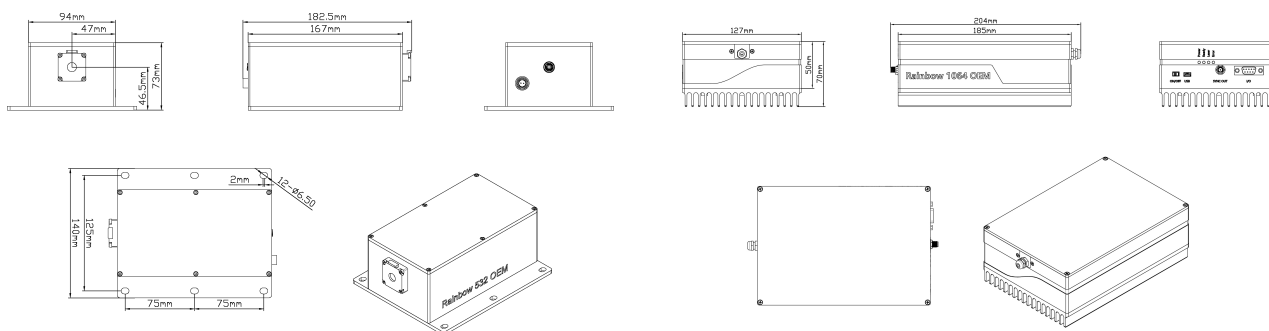


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Test Data



Machine Drawing



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CAUTION

CLASS 3B LASER RADIATION
WHEN OPEN
AVOID EYE OR SKIN EXPOSURE TO
DIRECT OR SCATTERED RADIATION