

Rainbow 780 OEM

780 nm Ultrafast Fiber Laser

Rainbow 780 OEM is a high-performance 780 nm ultrafast fiber laser that features excellent power stability and beam quality. It is specifically designed for OEM instrumentation, such as THz time-domain spectrometers. The laser is highly compact, can be remotely controlled via software, and is well-suited for setting up optical and spectroscopic systems.

Rainbow 780 OEM operates with a repetition rate of 80 MHz and an average power >60 mW. To access more power, our Rainbow 780 HP can provide >200 mW average power and up to 10 nJ pulse energy at 780 nm.

Rainbow 780 OEM is widely adopted in time-domain terahertz generation, SHG/THG imaging, and other nonlinear optical applications.

Applications:

- Terahertz generation
- SHG/THG imaging
- Two-photon polymerization
- Nonlinear optics
- General-purpose ultrafast source

Main Specification

Laser Parameters

Central Wavelength	780±10 nm	Average Power Stability	<0.5% RMS (12hrs@25°C)
Pulse Width (FWHM)	<100 fs (Typical 80 fs)	Pulse Energy	>0.75 nJ
Repetition Rate	80 MHz	Polarization Extinction Ratio	>20 dB
Average Power	>60 mW	Output Type	Spatially collimated output

Electrical, Environmental and Mechanical Parameters

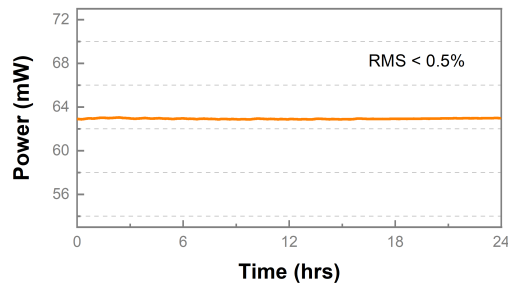
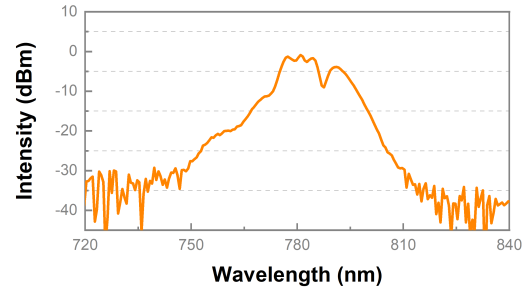
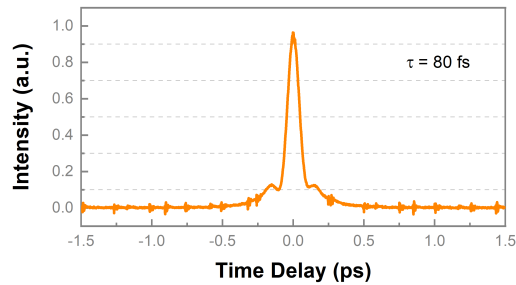
Supply Voltage	12 VDC	Dimensions	235×140×86 mm
Operational Temperature Range	15-35°C	Cooling	Air cooling
Operational Humidity Range	20~80% (non-condensing)		



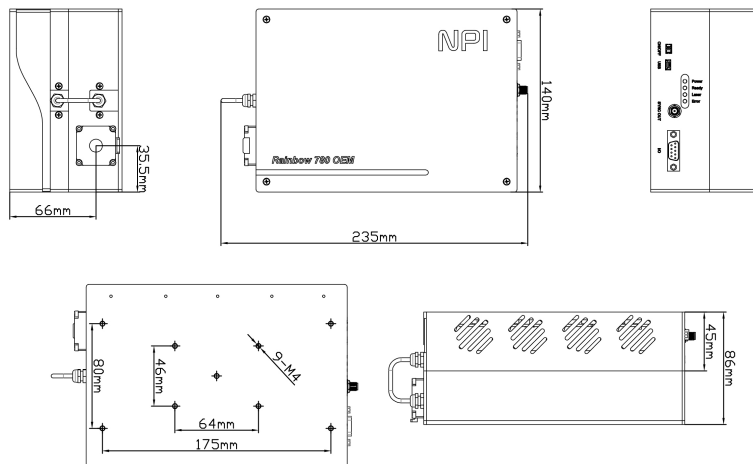
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Test Data



Machine Drawing



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