

ELMO 780

Femtosecond Fiber Laser 780 nm

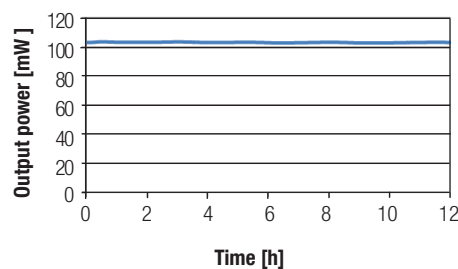


Menlo Systems' fiber-based femtosecond laser sources integrate the latest achievements in fiber technology into easy-to-use products. Menlo Systems' unique figure 9[®] mode locking technology results in reproducible and long-term stable operation. The ELMO with its all-fiber design guarantees excellent stability and low-noise operation. It is maintenance free, user installed and ready to use at the press of a single button. In short: An OEM laser engineered for 24/7 operation.

PERFORMANCE DATA

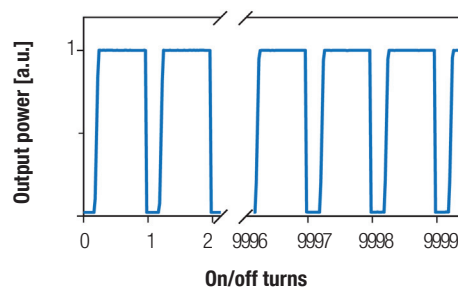
Amplitude noise

< 0.5% rms (over 24h)



Reproducibility

Identical and consistent laser performance



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KEY SPECIFICATIONS

- Wavelength 780 nm
- Output Power >80 mW
- Pulse Length <100 fs
- Repetition Rate 100 MHz
- Smallest Footprint - no external control unit

APPLICATIONS

- Amplifier Seeding
- THz Generation & THz Physics
- Ultrafast Spectroscopy
- Multi-Photon Excitation
- 2-Photon Polymerization and 3D Printing

FEATURES

- Handheld SHG Module
- High Stability
- Low Amplitude and Phase Noise
- All-PM Solution
- Single Mode-Lock State
- figure 9[®] Technology

OPTIONS

- **VARIO**
User-Defined Repetition Rate
Factory-set value selectable in the 50-100 MHz range
- **MULTIBRANCH**
Additional Seed Ports
Multiple Ports with optional subsequent frequency conversion to cover multiple wavelengths

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SPECIFICATIONS

ELMO780

Center Wavelength	780 nm \pm 10 nm
Average Power	>80 mW
Pulse Energy	>0.8 nJ
Pulse Width	<100 fs
Repetition Rate	100 MHz (50-100 MHz with VARIO)*
Output Port	free space
SHG Module	handheld SHG module: up to 2.5m external patch cord length
Auxiliary Output Port at 1560nm**	fiber-coupled, 1560 nm, >180 mW, <90 fs pulse width after up to 2.5 m external patch cord
2nd Output Ports (or multiple)	available with MULTIBRANCH
Polarization	linear, s-polarized

*Please inquire for your specific combinations of average power, pulse duration and repetition rate. ** Output wavelength changeable from 780 nm to 1560 nm with additional patch cord

REQUIREMENTS

Operating Voltage	12 VDC/2 A***
Power Consumption	20 VA
Operating Temperature	15 °C - 35 °C
Laser Head Dimensions/Weight	195 x 95 x 75 mm ³ / 2.9 kg
SHG Dimensions/Weight	195 x 47 x 28 mm ³ / 0.5 kg
Warm-Up Time	<60 s

***Power supply for 100/115/230 VAC can be provided as option.

ORDERING INFORMATION

Product Code	ELMO 780
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Please call for pricing. Specifications are subject to change without notice. Custom modifications are available, please inquire.

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Invisible laser radiation
avoid exposure to beam
Class 3B laser

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