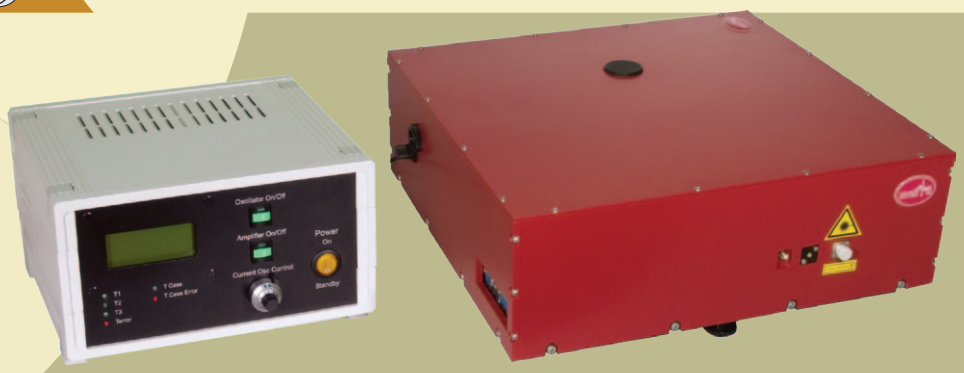
Femtosecond Fiber Lasers

EFOA-SH Fiber Laser

- 780 nm wavelength
- 1.1 nJ pulse energy
- Small footprint
- Turn-key operation
- Highly stable



EFOA-SH Er-doped fiber laser system with SH

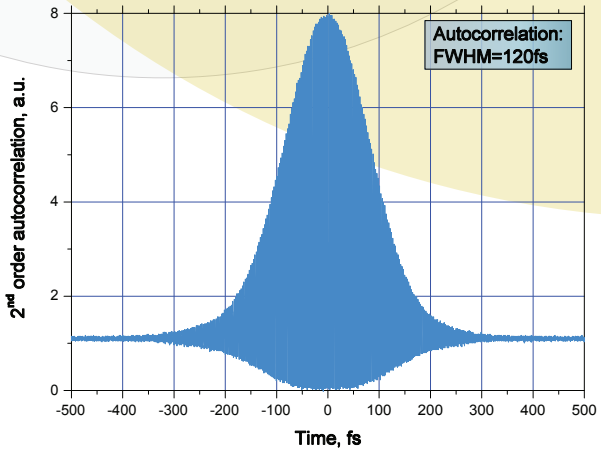
Product overview

Second harmonic of Er-doped fiber laser operates at wavelength of 780 nm and in a number of applications can replace the powerful yet less reliable solid-state Ti:S lasers. Easy to use design, turn-key operation, small footprint greatly facilitate any research in which the laser is involved. Lack of laser experience is not a problem with the fiber lasers, only general electronics and light physics knowledge is required to work with the unit.

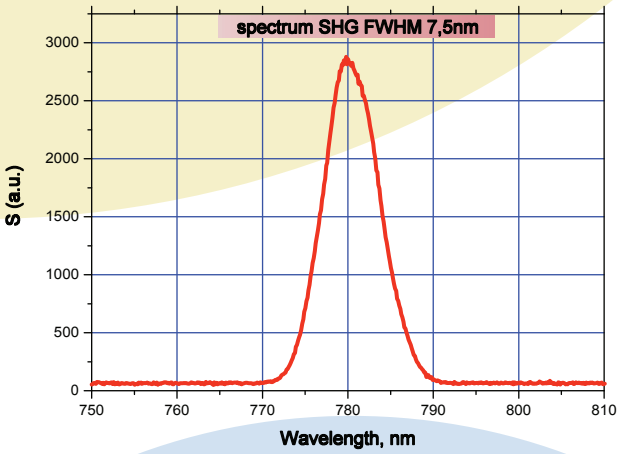
EFOA-SH is also a perfect source for amplifier system seeding due to one-box compact design and lack of expensive pump laser as in case of Ti:S solid-state seed.

Possible application of the EFOA-SH fiber laser:

- Amplifier systems seeding
- Terahertz generation and detection
- Multi-photon microscopy
- Ultrafast spectroscopy
- Semiconductor device characterization
- Supercontinuum generation
- Optical coherence tomography
- Telecommunications



EFOA-SH autocorrelation trace



Typical spectrum of the EFOA-SH laser system

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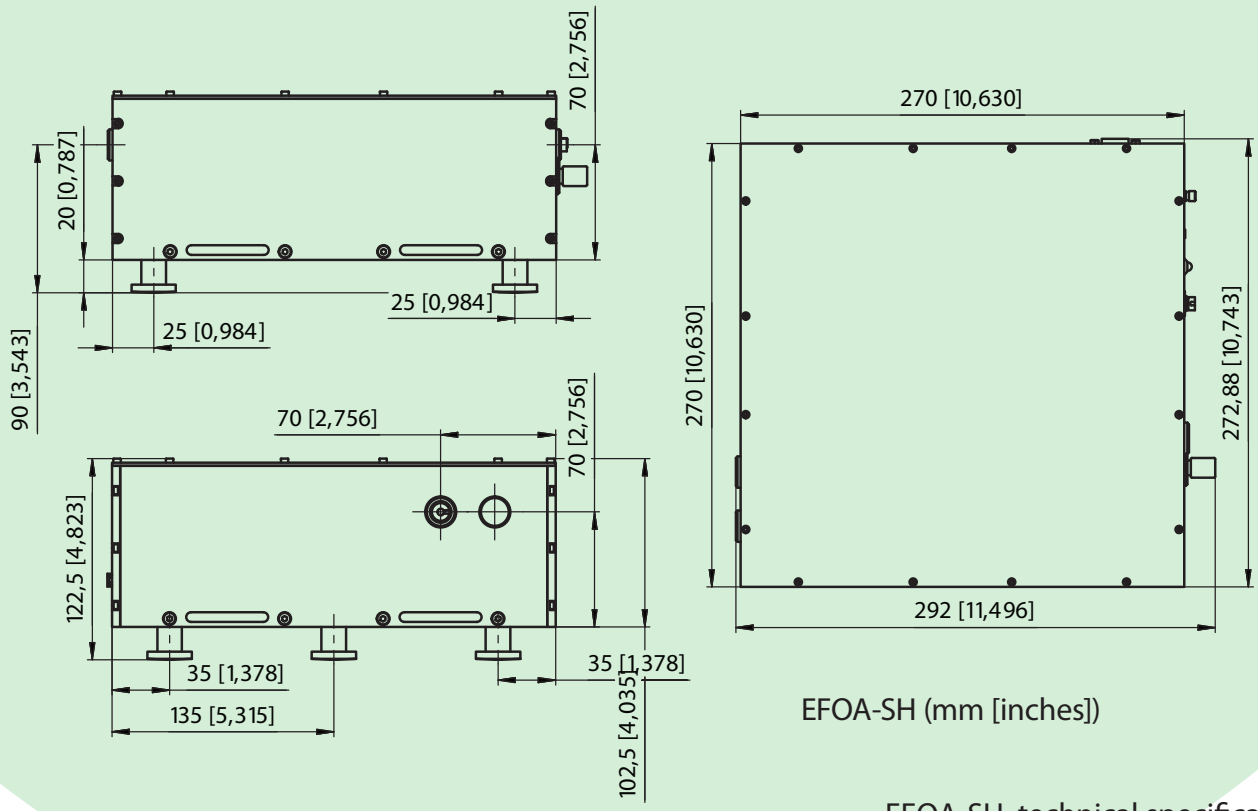

EFOA-SH (mm [inches])

EFOA-SH technical specifications

	EFOA-SH
Pulse Width (FWHM), fs	<120*
Wavelength, nm (fixed)	780±10
Average output power, mW	>80
Repetition rate, MHz	70**
Spectral width, nm	~7.5
Outputs:	Power output (switchable apertures***): >80 mW, 780 nm, TEM00, linearly polarized >160 mW, 1560 nm, TEM00, linearly polarized Service optical output: 1560 nm, FC/APC (~1 mW) RF SYNC Out: SMA connector Mode Lock Status: SMA connector (3.5/0V) and LED
Operating temperature, °C	22±5
Warm-up time for rated accuracy, min	20
Electrical data	110...220 VAC, 50/60Hz
Dimensions	
Laser head, mm	270x270x122.5
Control unit, mm	230x200x130
Crystal oven control unit, mm	160x200x75

** – <100fs pulse durations available upon request*
*** – please indicate the necessary value when placing an order (from 25 to 80MHz)*
**** - simultaneous dual output is also possible upon request with >80 mW@1560 nm and >80 mW@780 nm*

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