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Integrated Fiber Optics

Ultrafast MAM seeder

Ultrashort Pulse Fiber Seeders for Laser Amplifiers

1030nm, 15-30MHz, 1-50mW, no SESAM

Integrated Fiber Optics offers stand-alone version of patented ultrashort optical pulse fiber MAM oscillator, which is ideal for fiber MOPA seeding and industrial applications where reliability, durability and long life-time are essential

Features

Designed for 24/7
No consumable components
Robust to external disturbances

Applications

Seeding femtosecond and picosecond lasers
Applicable for DPSS and fiber-based amplifiers
Time resolved spectroscopy and metrology

MAM oscillator does not contain any critical components such as SESAM. The key advantage of this generator is that it has zero consumable parts and is exceptionally robust to the environmental disturbances, like vibration and temperature changes. It can operate under normal, zero and anomalous dispersion conditions.

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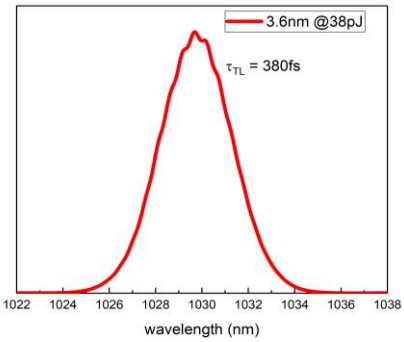
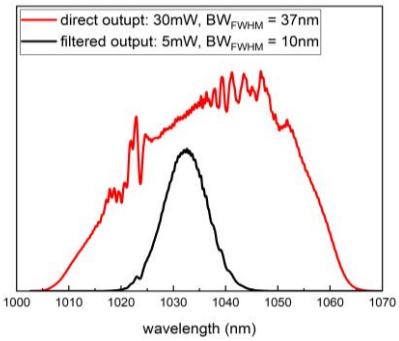
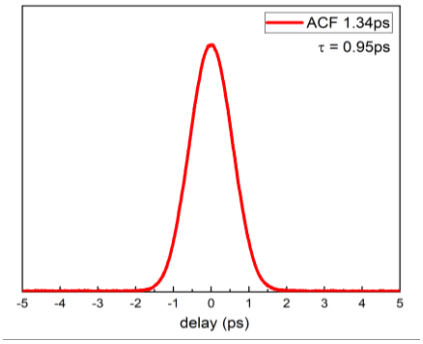
- Temporally and spectrally clean pulses
- Reliable self-starting operation
- Highly customizable output parameters
- Fast and cost-effective assembly



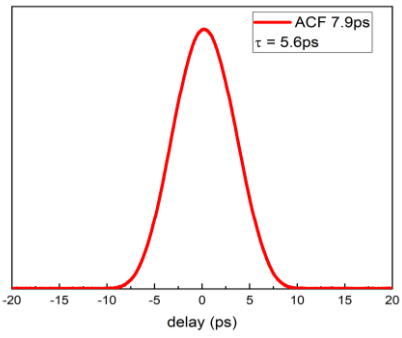
*Measured output spectrum of **GNB** model laser*



*Measured output spectrum of **GBB** model laser*



Measured autocorrelation function of the pulses from the output of **GNB** model laser



*Measured autocorrelation function of the pulses from the output of **GBB** model laser*

	Model	
	GNB	**GBB**
Central wavelength	1030 nm	
Pulse duration (directly from the laser)	1 – 5 ps	~7 ps
Spectral bandwidth	4 – 12 nm	>50 nm
Pulse duration (after compression)	200 – 500 fs	<100 fs
Average power	1 – 3 mW	20 – 50 mW
Pulse energy[1]	20 – 100 pJ	0.5 – 5 nJ
Pulse repetition rate (factory fixed)	15 – 30 MHz	
Polarization	linear, >100:1 extinction	
Optical output	FC/APC connector or collimated beam	
Available control interfaces	USB, CAN, RS232	

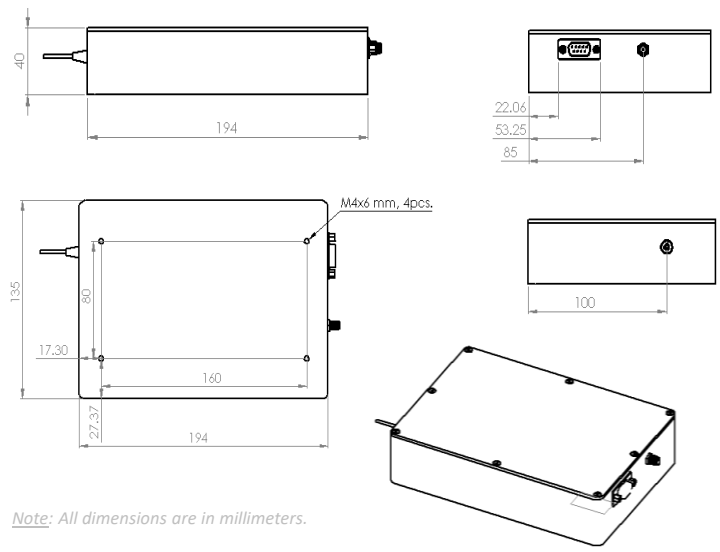
PATENT

World patented technology

US10038297, JP6276471, EP3178137, CN106575849

*Integrated Fiber Optics hold an **exclusive license** of the IP invented by the Center for Physical Sciences and Technology*

[1]Average power and pulse energy will depend on exact repetition rate as well as operational current



Note: All dimensions are in millimeters.

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New Industrial Standard in Ultrafast Lasers