1560nm High Repetition rate Femtosecond Pulse Fiber Laser

The E-Fiber series ultrafast laser integrates the latest femtosecond laser technology, uses high-performance rare earth fiber as the working medium, combines high-precision dispersion compensation technology and active servo system, and realizes stable output of femtosecond pulse laser with a high repetition rate in the 1560nm band. One-button self-starting, long-term stable operation and maintenance-free, with extremely narrow laser pulses and high pulse peak power, it has a wide range of applications in the fields of the optical frequency comb, supercontinuum, terahertz THz, and other fields.

* Accept customization of parameters such as pulse width, power, repetition frequency, etc.

Characteristics

- Pulse Width 50~500 fs
- Pulse Repetition Frequency 200MHz~1GHz Customizable
- Self-starting Maintenance-free
- Full Polarization-maintaining High Stability

Applications

- Optical Frequency Comb
- Supercontinuum
- Ultra-faster Laser Research

Parameters	Unit	Typical Value	Remarks
Center Wavelength	nm	1560±10	
Spectrum Width	nm	20	
Pulse Duration	fs	50 ~ 500	Customizable
Average Power	mW	1 ~ 200	Customizable
Power Instability	-	< ±1%	
Repetition Rate	MHz	≥ 200	200MHz~1GHz
Repetition Rate Instability	Hz	< 200	
Pulse Energy	nJ	> 1	
Polarization	-	Linear	Aligned to Slow Axis
Fiber Type	-	PM fiber, 1m	
Fiber connector	-	FC/APC	
Worm Up time	min	< 1	

General Parameters	Desktop	Module
Control function	Push Button in Front Panel	RS232 Serial Port
Synchronous electrical signal port	SMA	SMA
Power Supply	AC100~240V, <30W	DC5V, <20W
Dimensions(mm)	260(W)×280(D)×120(H)	200(W)×121(D)×65(H)
Operation Temperature	5 ~ 35°C	
Operation Humidity	0~70%	

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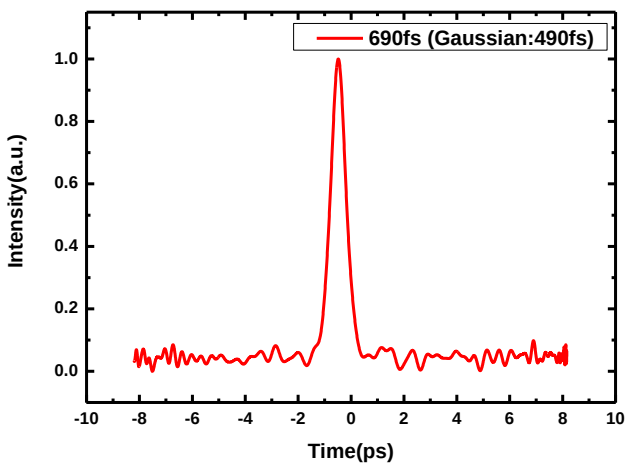
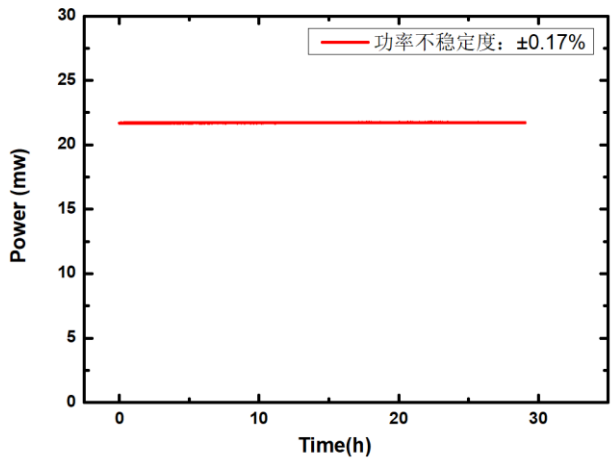
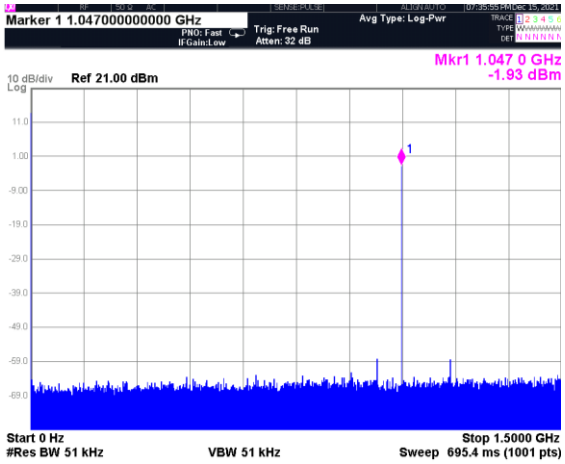


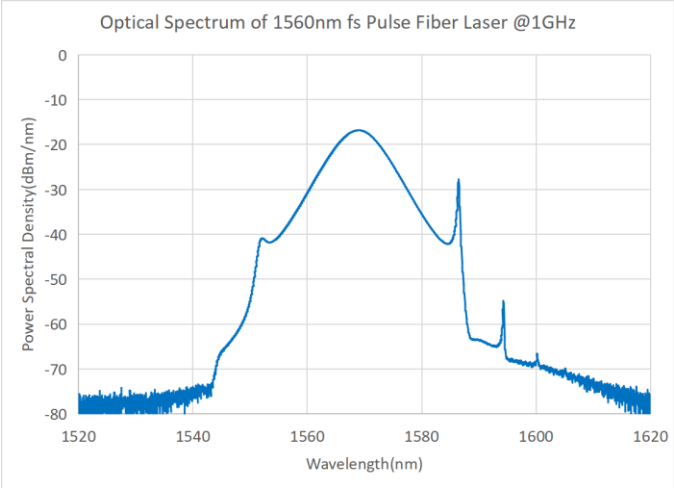
Autocorrelation Curve



Power Stability



Frequency



Optical Spectrum

Ordering Information/Model Number						
FSPL	WL(nm)	Pulse Duration(fs)	Power(mW)	Freq(MHz)	Fiber	Packaging
	1560	50/100/200/500	10/50/100	200/600/1000	SM PM	B-Desktop M-Module

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