

1560nm high repetition rate femtosecond pulse fiber laser



● Product Description

The E-Fiber series of ultrafast lasers integrate the latest femtosecond laser technology, use high-performance rare earth optical fiber as the working medium, and combine high-precision dispersion compensation technology and active servo system to achieve stable output of high-repetition-rate femtosecond pulse lasers in the 1560nm band. It can start automatically with one button, work stably and maintenance-free for a long time, and has the characteristics of extremely narrow laser pulses and high pulse peak power. It has wide applications in optical frequency combs, supercontinuum, terahertz



THz and other fields. * Customization of parameters such as pulse width, power, and repetition frequency is accepted.

● Product features

Pulse width 50~500 fs、 Pulse repetition rate 200MHz~1GHz customizable、
 Self-starting and maintenance-free、 Full polarization and high stability

● Part Number

MP-PLS-FS-500-1560-10-200-PM-B

● Application area

Optical frequency comb、 Supercontinuum、 Ultrafast laser phenomenon

● Core parameters

Central wavelength	Laser average power	Pulse width	Repetition frequency
1560nm	10mW	500fs	200 MHz

● General Parameters

Parameter

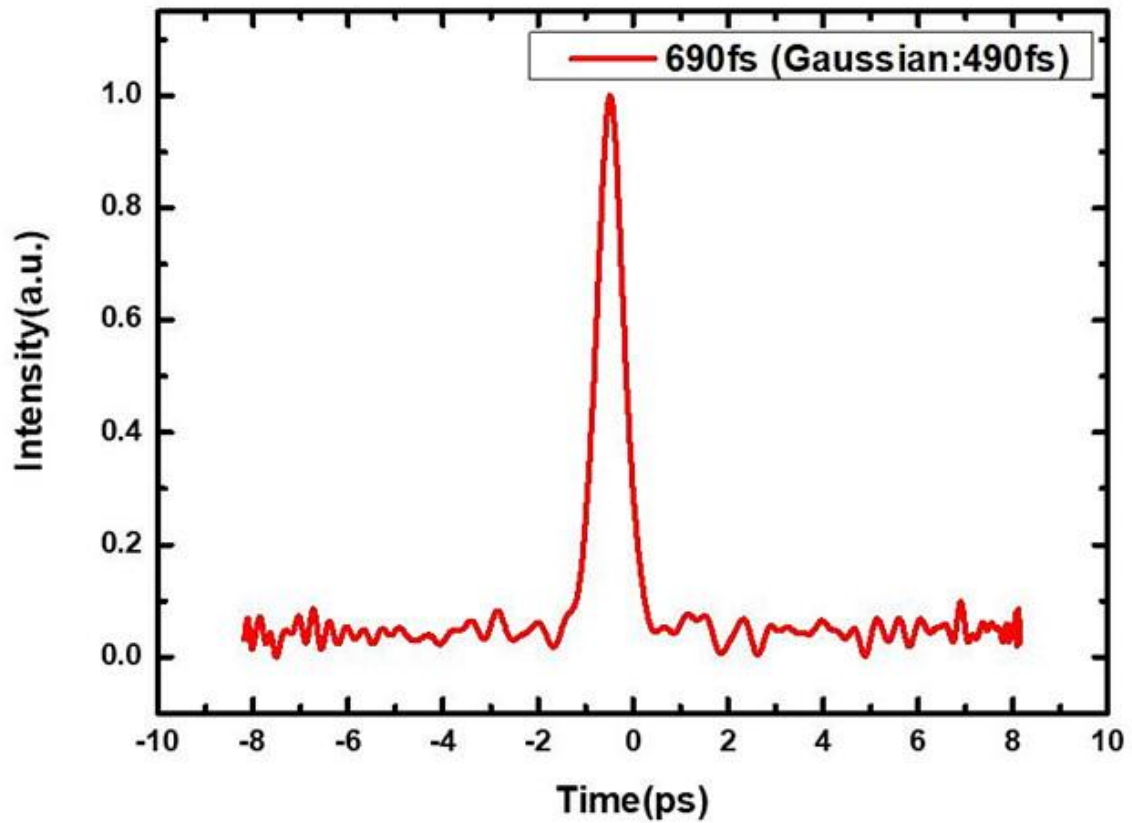
Parameter	Unit	Typical	Notes
Wavelength	nm	1560±10	



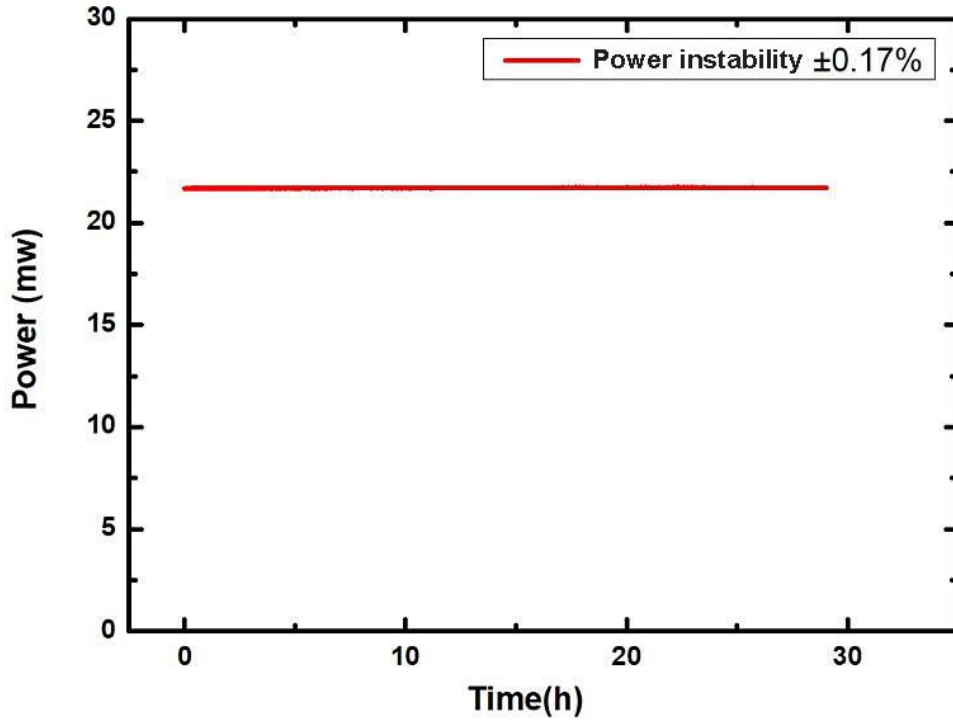
Spectral width	nm	20	
Pulse width	fs	50 ~ 500	Customized
Output power	mW	1 ~ 200	Customized
Power instability	-	< $\pm 1\%$	
Repetition rate	MHz	≥ 200	200MHz~1GHz can customized
Repetition rate instability	Hz	< 200	
Single pulse energy	nJ	>1	
Polarization state	-	Linear polarization	
Output fiber type	-	PM fiber 1m	
Optical connector type	-	FC/APC, Slow axis alignment slot	
Warm-up time	min	<1	

Electrical and Environmental Parameters	Benchtop	Module
Control method	button	button
Synchronous electrical	SMA	SMA

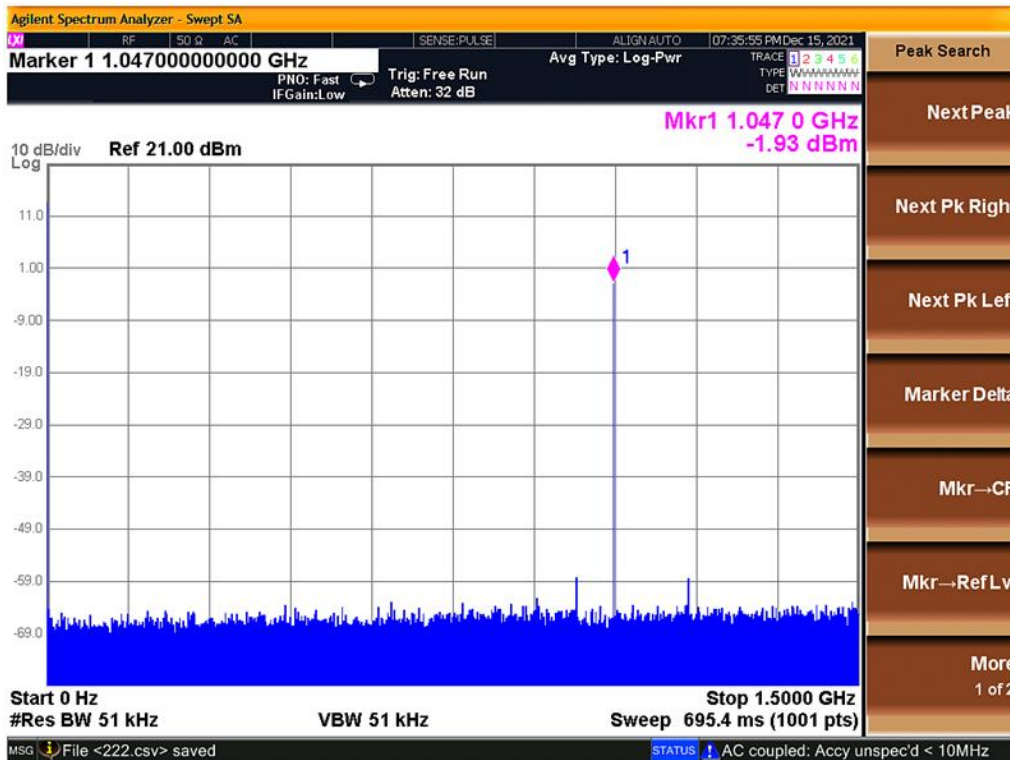
signal interface		
Power supply	100~240VAC,<30W	5V DC,<20W
Dimensions	260(W)×280(D)×120(H)mm	200(W)×121(D)×65(H)mm
Operating temperature	5 ~ 35°C	
Operating humidity	0~70%	



Pulse autocorrelation line



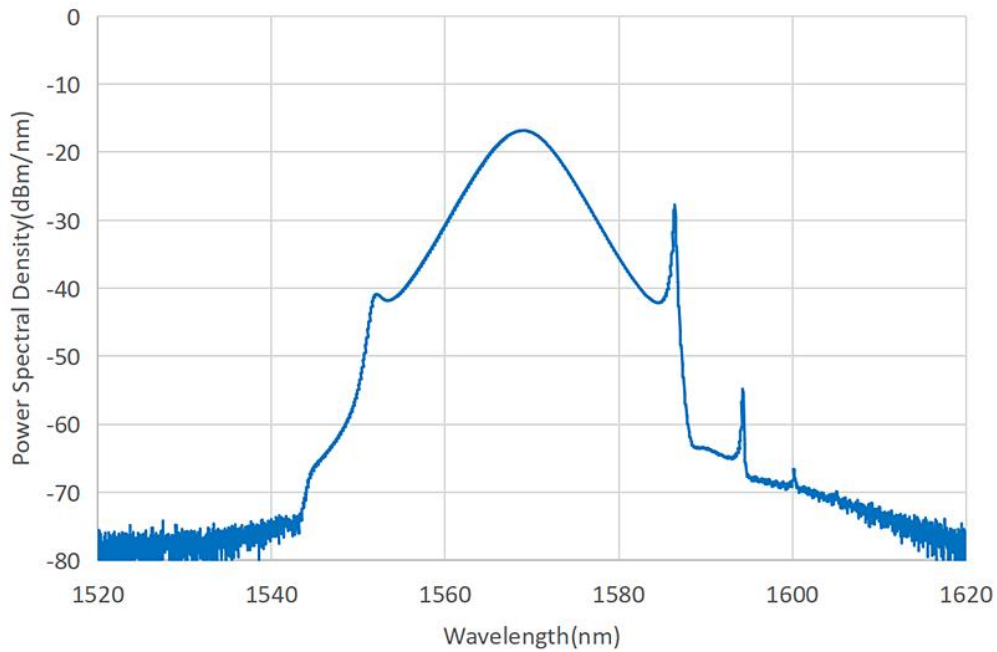
Power



Pulse sequence



Optical Spectrum of 1560nm fs Pulse Fiber Laser @1GHz



Spectrum

Ordering information / PN#						
MP-P LS	wavelength(nm)	Pulse width(fs)	Average power (mW)	Repetition rate(MHz)	Output method	Packagin g form
	1560	50/100/2 00/ 500	10/50/10 0	200/600/1 000	SM=single-mode PM=Polarization- mode	B=Bench top M=Modul e