

515nm Picosecond Pulsed Fiber Laser



- **Product Description**

The Y-Fiber series ultrafast laser uses high-performance rare earth optical fiber as the working medium, combined with full polarization-maintaining mode locking and frequency doubling technology to achieve stable output of picosecond pulse lasers in the 515/532nm band. It can be fully self-started and work stably for a long time. It has the characteristics of narrow laser pulses and high pulse peak optical power. It can be used for scientific research in the fields of fluorescence lifetime microscopy and nonlinear optics. * Customization of parameters such as pulse width, power, repetition rate, etc. is accepted.

● Product features

Full polarization-preserving optical path 、 Self-starting and maintenance-free、 Green light picosecond

● Part Number

MP-PLS-PS-50-515-10-FS-B

● Application area

Fluorescence lifetime microscopy、 OPA pump laser、 Seed laser

● Core parameters

Central wavelength	Pulse width	Output power
512nm	50ps	10mW

● General Parameters

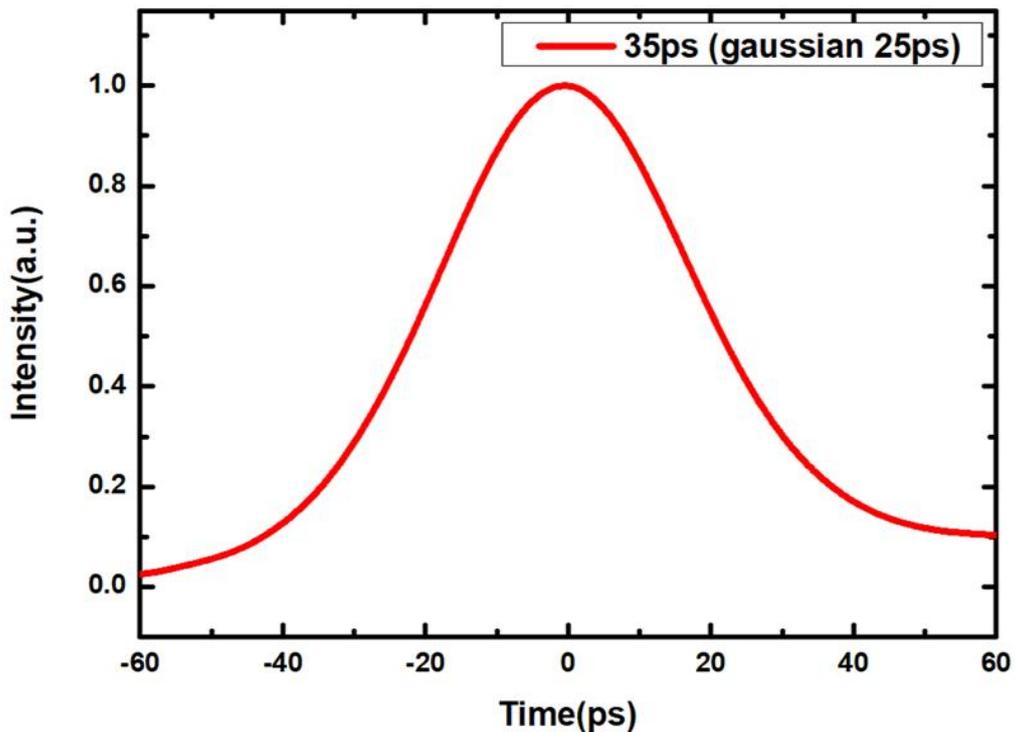
Parameter

Parameter	Unit	Typical	Notes
Central wavelength	nm	515/532	Customizable
Spectral width	nm	0.3	Customizable
Pulse width	ps	10/20/50/100	Customizable

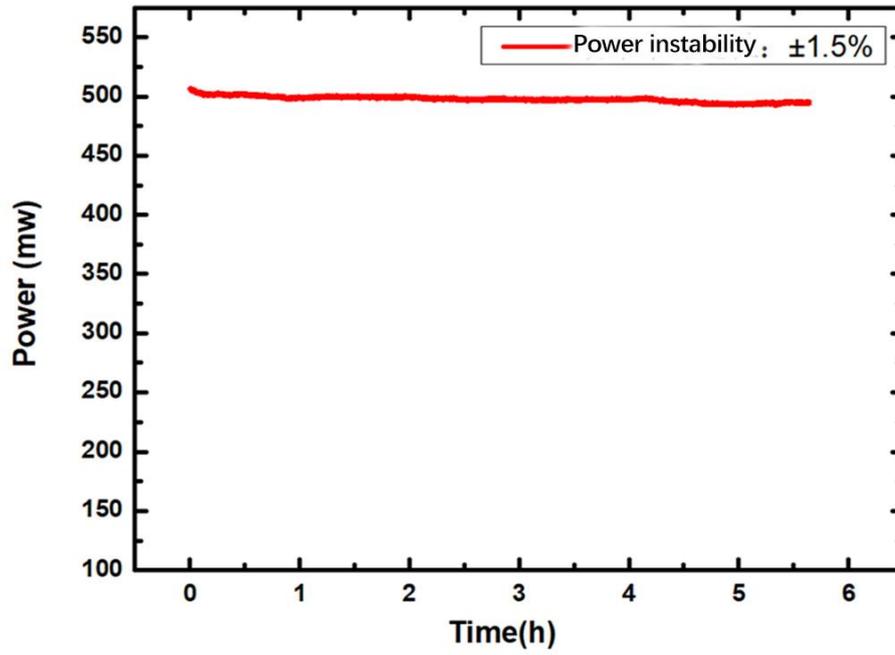
Output power	mW	1~200	Customizable
Power instability	-	< ±2%	25°C, 5 minutes after power on
Repetition frequency	MHz	15~100	Customizable
Single pulse energy	nJ	>0.5	
Mode-locking stabilization time after power-on	s	<20	
Laser polarization state	-	Linear polarization	
Laser output mode	-	Spatial output	
Warm-up time	min	<1	

Electrical and environmental parameters	Benchtop	Module
Control mode	Button	Button

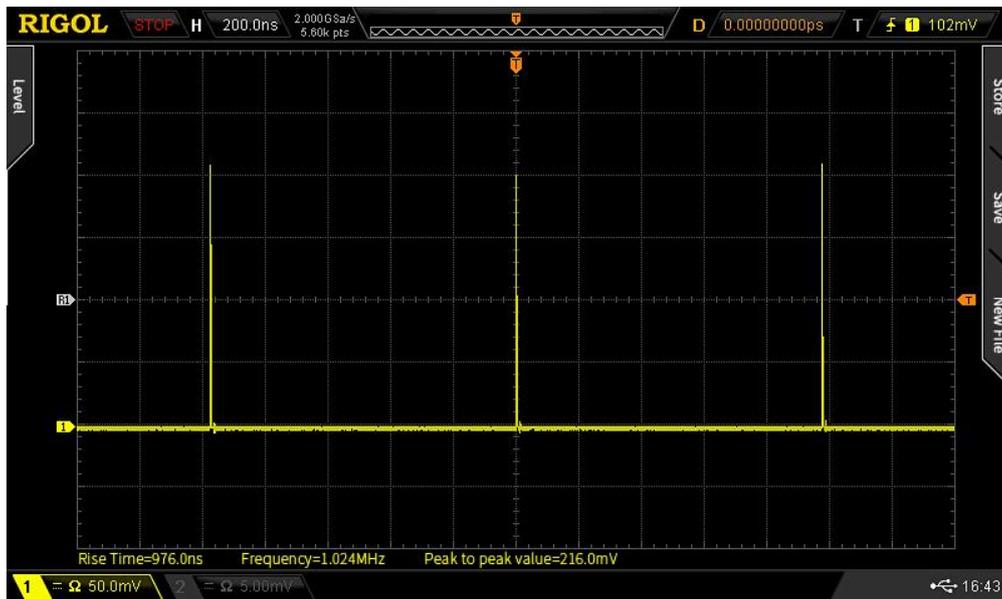
Synchronous electrical signal interface	SMA	SMA
Power supply	100~240VAC,<30W	5V DC,<20W
Dimensions	330(W)×398(D)×112(H)mm	200(W)×121(D)×65(H)mm
Operating temperature	5 ~ 35°C	
Operating humidity	0~70%	



Pulse autocorrelation line



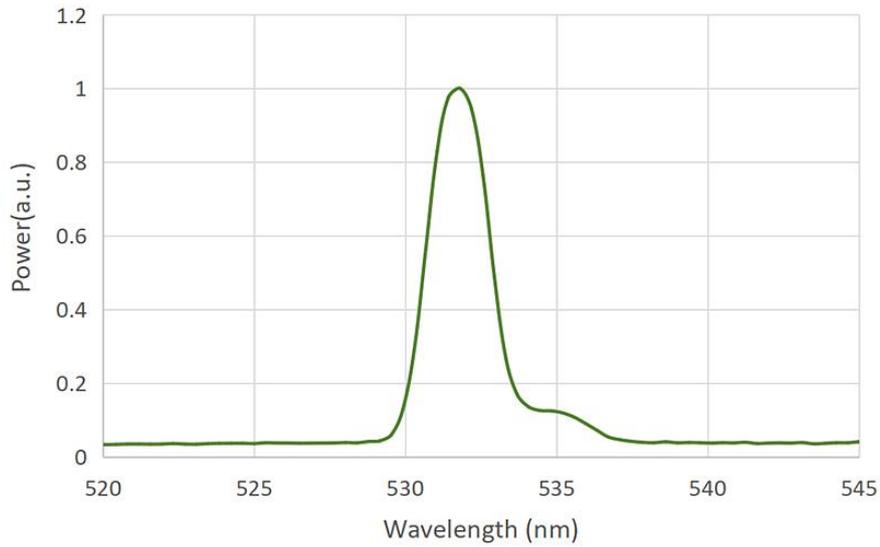
Power



Pulse sequence



Optical Spectrum of 532nm ps Pulse Fiber Laser



Spectrum

Ordering information / PN#						
MP-PL S	wavelength(nm)	Pulse width(ps)	power (mW)	Repetition rate(MHz)	Output method	Packaging form
	515/532	10/20/50/100	10/50/200	15/50/100	FS=Free Space Optical	B=Benchtop M=Module