

1560nm Femtosecond Pulse Fiber Laser

E-fiber series ultrafast lasers integrate the latest femtosecond laser technology. The stable output of 1560 nm femtosecond pulse laser is realized by using high-performance erbium-doped fiber as working medium and high-precision dispersion compensation technology. The output laser pulse has the characteristics of extremely narrow duration and high pulse peak power. The laser is a turnkey product with long-term stable operation and maintenance free. It can be widely used in the research fields of optical frequency comb, supercontinuum, terahertz and so on. * Specific combination of pulse duration, repetition rate and average power is customizable.

Characteristics

- Pulse duration < 50fs
- 1560 nm wavelength
- Turn-Key Product
- ALL PM fiber Laser cavity

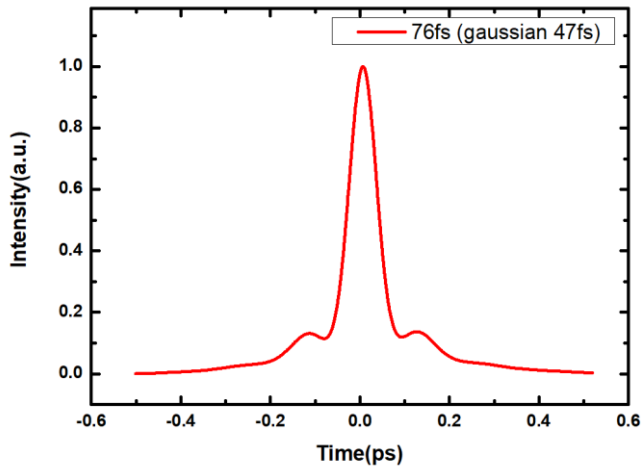
Applications

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

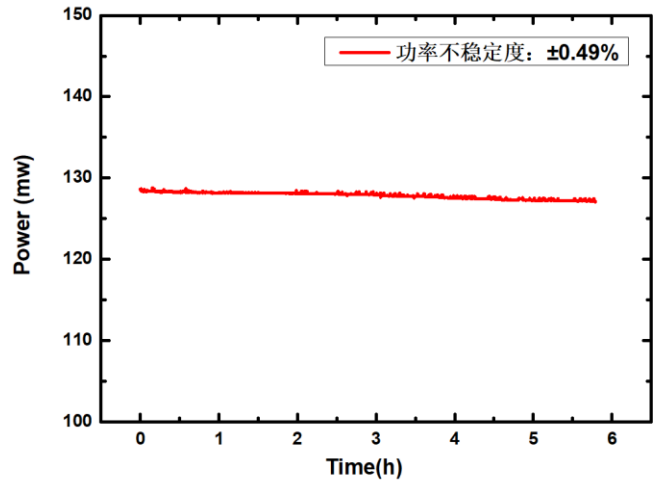


Parameters	Unit	Typical Value		Remarks
Center Wavelength	nm	1560±10		
Spectrum Width	nm	20	60	
Pulse Duration	fs	50/100/200/500		Customizable
Average Power	mW	1~120		Customizable
Power Instability	-	< ±1%		
Repetition Rate	MHz	80		
Repetition Rate Instability	Hz	< 100		
Pulse Energy	nJ	>1		
Polarization	-	Linear		Aligned to Slow Axis
Fiber Type	-	PM Fiber 0.5m	PM Fiber 2m	
Fiber connector	-	FC/APC		
Warm Up time	min	< 1		

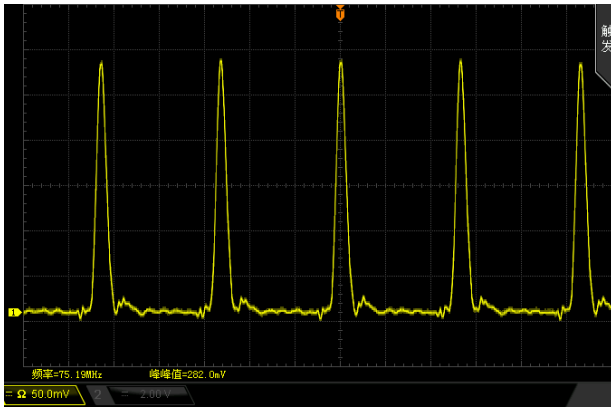
General Parameters	Desktop	Module
Control function	Push Button in Front Panel	RS232 Serial Port
Synchronous electrical signal port	SMA	SMA
Power Supply	AC100~240V, <30W	DC5V, <20W
Dimensions(mm)	260(W)×280(D)×120(H)	200(W)×121(D)×65(H)
Operation Temperature	5 ~ 35°C	
Operation Humidity	0~70%	



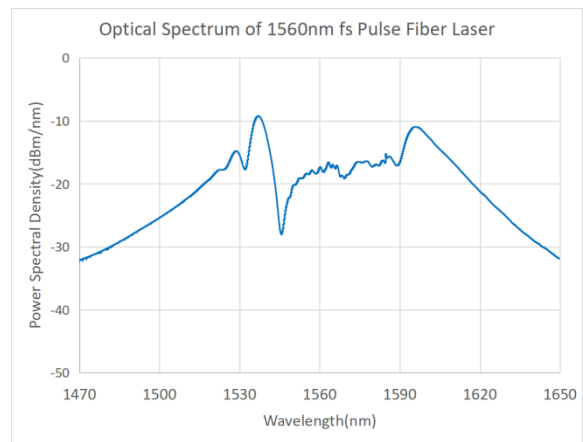
Autocorrelation pulse duration < 50 fs



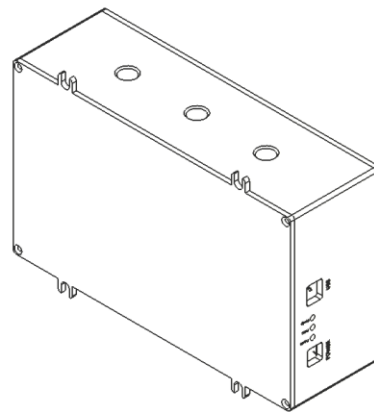
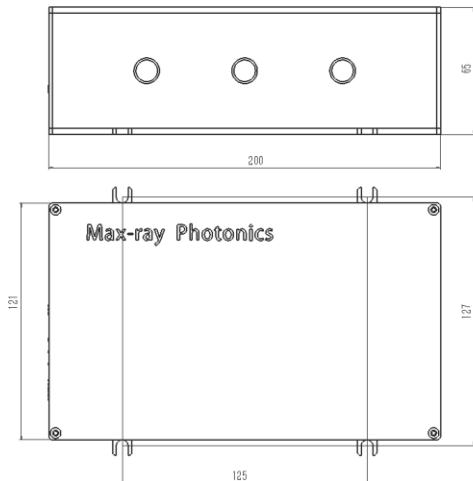
Power Instability



Pulse Train



Typical 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	80/100	SM PM	B - Desktop M - Module