

[OEPLS-FS-100-1030-low cost]

## 1030 nm Low-cost Pulsed Laser Sources (Femtoseconds)

### Features:

- Compact Size and robust
- PM Femtosecond Pulsed fiber laser
- Operation wavelength, 1030nm
- Maintenance-free and self-starting
- High pulse to pulse stability
- Lower operating costs
- Turnkey solution

### Applications:

- Research and Development (R&D)
- Seed laser for Biomedical optics such as different kind of imaging
- Seed laser for fiber laser and fiber amplifier
- Second Harmonic Generation Microscopy
- Third Harmonic Generation Microscopy
- Multiple Photon Microscopy
- Time precision detection
- laser imaging, detection, and ranging (LiDAR)
- Supercontinuum generation
- Terahertz wave generation
- Ultrafast laser phenomenon

### Product description:

The turnkey source ytterbium-Doped Ultrafast Fiber Laser provides ultra-short pulses (>150 fs) in the 1030 nm wavelength range. With the fundamental oscillator repetition rate of 10 to 30 MHz, this laser produces an average power of more than 30 mW. It is the perfect source for nonlinear optics tasks like supercontinuum generation. This laser has an all-PM-fiber architecture that maximizes environmental stability.

### Product specifications:

Parameter	Unit	OEPLS-FS-100-1030-low cost
Center Wavelength (CWL)	nm	1030
Pulse Width	fs	>150
Average Output Power	mW	>30
Power stability over 2 hours	%	<2
Repetition Rate	MHz	10-30
Polarization Extinction Ratio	dB	> 20
Pulse to pulse stability over 1million pulses	%	2
Operation Temperature	°C	-20 to +50
Seed Output	-	PM980 Fiber, FC/PC, FC/APC
Laser Output	-	Free space, collimated beam
Dimensions:	mm	320x320x90

**Package includes:** OEPLS-FS-100 Unit, Power Cable, User manual.

Performance spectrum:

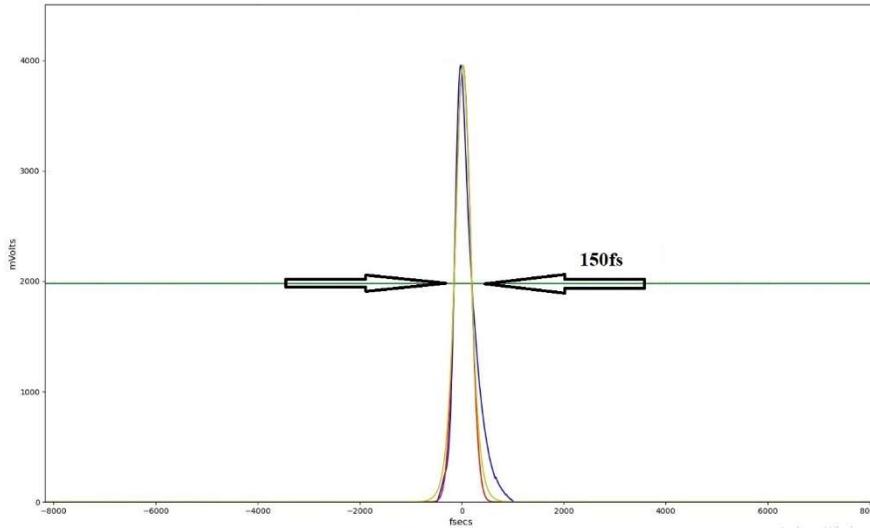


Fig. 1. Pulse width

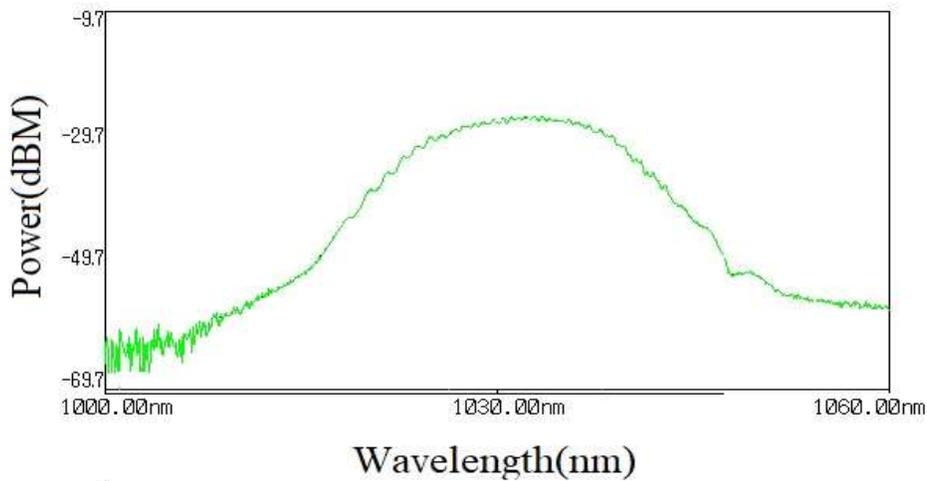


Fig. 2. Optical spectrum (More than 12nm- 3dB measuring)

Ordering information:

OEPLS-FS-100-1030-low cost	OEPLS	FS	WL	Low-cost
	Type	Pulse width	Wavelength	Option
	Pulsed	Femtosecond	1030 nm	Low-cost