

[OEPLS-PS-100-NL]

Narrow Linewidth Pulsed Laser Sources (Picoseconds)



Fig. 1. OEPLS-PS-100-NL Seed module



Fig. 2. OEPLS-PS-100-NL MOPA module

Features:

- Narrow linewidth
- Picosecond Pulsed fiber laser
- Operation wavelength of 1020-1090 nm
- Polarization maintaining
- Free-space output available for the amplifier module
- Lower operating costs
- Turnkey solution

Applications:

- Quantum photonics
- Spectrometry
- Industrial
- Medical & bio-medical
- Sensing
- Single-photon sources
- Entangled photon sources

Product description:

The OEPLS-PS-100-NL Narrow-linewidth mode-locking fiber laser source from O/E Land Inc. is the newest member of our Pulsed Laser source family. Master oscillator power amplifier (MOPA) and pulsed laser seed are provided in different center wavelengths. These turn-key solutions are targeting customers looking for pulsed laser source or seed laser to build their pulsed fiber laser system in MOPA structure with moderate output power and low repetition rate.

The applications include, but are not limited to quantum photonics, spectrometry, industrial and medical/biomedical, etc. Specifically, the high-power narrow linewidth pulsed laser sources are useful in quantum photonics, single photon source, entangled photon source, sensing, and medical application.

Product specifications:

Parameter	Unit	OEPLS-PS-100-NL	
		SEED	MOPA
Type			
Operating Wavelength (CWL)*	nm	1020 – 1090	
Bandwidth @ 3 dB	nm	0.02	0.07
Pulse Width	ps	100-1000	
Repetition Rate	MHz	0.1-100	
Average Output Power	W	~ 0.01	< 10
Output Fiber type	-	PM	
Output Fiber termination		Fiber connector	Free space, collimated beam
Operation Temperature	°C	10 to 50	
Dimensions (WxHxL)	mm	190x90x300	500x600x300

* Other wavelengths available upon request

Performance spectrum:

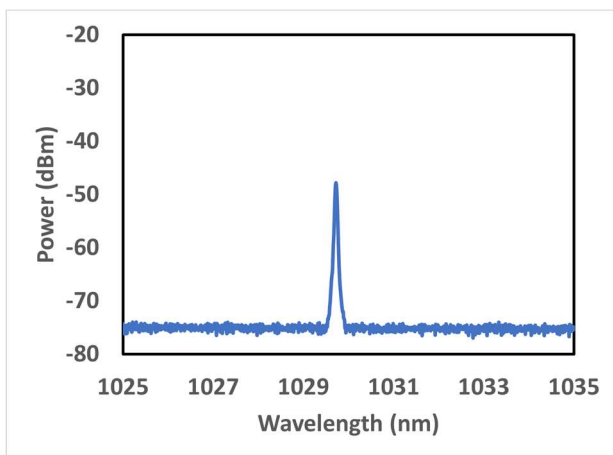


Fig. 3. OEPLS-PS-100-NL Seed module spectrum

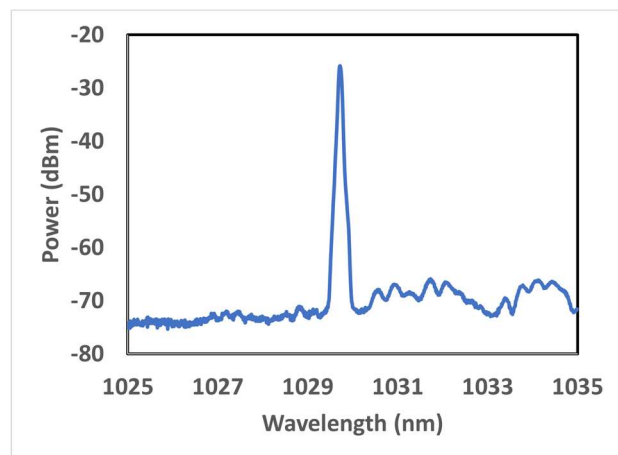


Fig. 4. OEPLS-PS-100-NL MOPA module spectrum

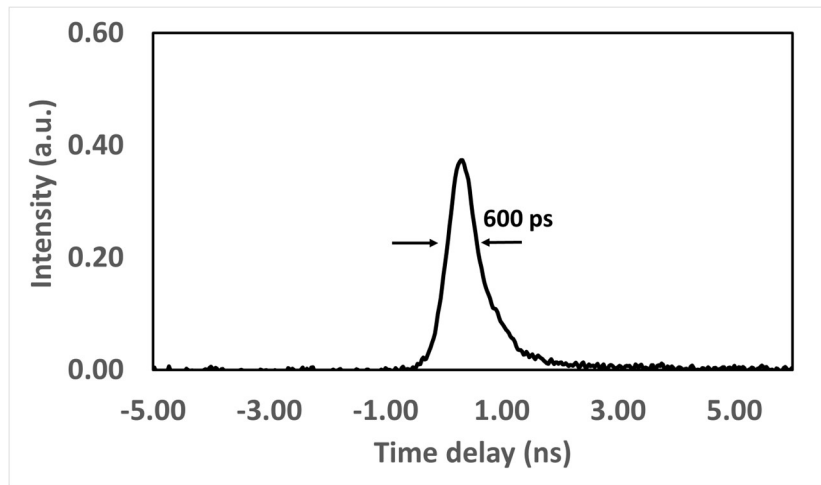


Fig. 5. Pulse width

Ordering information:

OEPLS-PS-100-NL-CWL-P-R-W-X	CWL	P	R	W	X
Example:	Wavelength	Power	Repetition rate	Pulse width	S=SEED
OEPLS-PS-100-NL-1060-5-20-600-M	1060 nm	5 W	20 MHz	600 ps	M=MOPA