## ADVANCED PRODUCTS

# Narrow Spectrum Bandwidth Ultrafast Fiber Laser

- Active Mode-locking



### **Applications**

- Amplifier seeding
- Materials characterization
- Diagnostics in biology and medicine
- Optical sampling
- Lidar

#### **Features**

- Narrow spectral width of 0.05 nm
- Repetition rate from 100 MHz to 2 GHz selectable
- Wavelength selectable over C-band or 1 µm band
- Pulse width tunable from 80 to 100 ps
- Average output power greater than 5 mW
- Linearly polarized output
- Transform-limited output
- Low timing jitter
- Minimal pulse pedestal

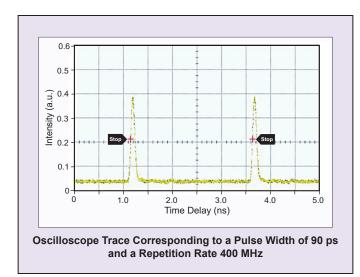
The C-band and 1 µm band narrow spectrum bandwidth ultrafast fiber lasers (PSLNB) are two actively modelocked fiber lasers with spectral bandwidth of 0.05 nm and 0.04 nm, respectively. The PSLNB series operates from 100 MHz to 2 GHz, selectable in a compact and robust package that delivers stable and reliable laser performance for a variety of applications. The pulse width can be tuned from 80 to 100 ps with transform-limited pulse shape and a better than -20 dB pedestal. The timing jitter is as low as 75 fs and the side mode suppression is better than -75 dB. An option for 780 nm band is available.

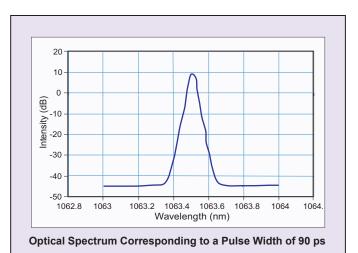
### **Technical Specifications**

Model Number	PSLNB-00-CFT	PSLNB-00-UFT
Pulse Width (ps)	80 ~ 100 (tunable)	
Output Wavelength (nm)*	1530 ~ 1565 (selectable)	1020 ~ 1065 (selectable)
Output Spectral Bandwidth (nm)	~0.05	~0.04
Repetition Rate (MHz)	100 ~ 2000 (selectable)	
Timing Jitter (fs)	<75 (carrier offset 100 Hz ~ 1 MHz)	
Amplitude Noise (%)	<1	
Output Power (mW)	>5	
Operating Temp (°C)	15 ~ 30	
Operating Voltage (VAC)	85 ~ 264	
Dimensions (cm)	48(w) x 42(d) x 9(h)	

\* 780 nm band is available.

Due to our continuous improvement program, specifications are subject to change without notice.





#### INVISIBLE LASER RADIATION AVOID EYE OR SKIN EXPOSURE TO DIRECT OR SCATTERED RADIATION Warding The Case A Friend Marking The Case A Friend

