

O-band Femtosecond Fiber Laser



Applications

- Telecommunication component characterization
- Si IC testing
- Optical metrology
- Amplifier seeding

Features

- Wavelength selectable 1280 - 1330 nm
- Pulse width < 0.2 ps
- Average power > 2 mW
- Near transform-limited output
- Minimal pulse pedestal
- Low timing jitter
- RF synchronization output
- Turnkey operation

The O-band bench top femtosecond Fiber Laser (FPL) is based on passively mode-locked fiber laser and fiber nonlinear wavelength conversion. It delivers excellent stability and reliability, with turnkey operation. It has fiber coupled output with pulse width of 0.2 ps. The timing jitter is less than 60 fs. Repetition rate can be specified from 27 MHz to 100 MHz. The FPL O-band laser is the most economical solution for application requires low power, such as high speed photo detector testing and amplifier seeding. An RF synchronization output is provided as a trigger signal.

Mendocino 1310 nm Technical Specifications

Specifications	
Central Wavelength (nm)	1280 - 1330 selectable
Average Power (mW)	> 2
Pulse Width (ps) *	< 0.2
Repetition Rate (MHz)	27 - 100 selectable
Peak Output Power (W)	~ 350
Spectral Width (nm)	~ 10
Timing Jitter (fs)	60 (carrier offset 100 Hz - 1 MHz)
Fiber Type	SMF-28
Polarization Extinction Ratio (dB)	20
Operating Voltage	85 - 264 VAC
Dimensions (cm)	34(w) x 40(d) x 9(h)

* $sech^2$ pulse shape (convolution factor of 0.65) is used to determine the pulse width for the second harmonic autocorrelation trace.

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

