

10 GHz Picosecond Laser

Calmar's family of picosecond fiber lasers enables researchers to achieve greater insight into the performance of their components and/or communication systems.

All lasers in Calmar's family of picosecond fiber lasers can be mode-locked manually or automatically. The automatic laser locking feature is especially convenient for users who are unfamiliar with actively mode-locked lasers.

Low timing jitter and low amplitude noise are characteristics of Calmar's picosecond fiber lasers, and ensure that the quality of the laser output meets even the most stringent test requirements.

Calmar's picosecond fiber lasers also provide users with the flexibility to vary the pulse repetition rate over a wide range, and to tune the wavelength throughout the entire 1550 nm region.

Quick configuration and easy operation are hallmarks of all Calmar Optcom's products.



- Pulse widths < 1.2 ps
- Repetition rate adjustment 5 – 11 GHz
- Wavelength tunability 1530 – 1565 nm
- Average output power > 20 mW
- Low timing jitter
- Automatic and manual mode-locking
- Easy operation

Optional Upgrades

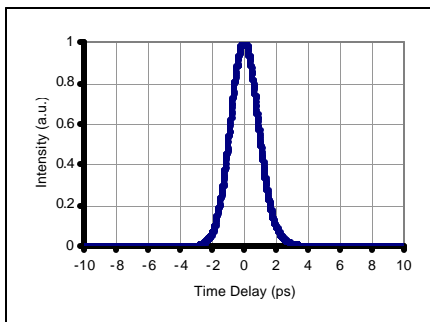
- Front panel pulse width adjustment (1 – 15 ps)
- Very wide repetition rate range
- Computer control
- Precision internal RF clock

Technical Specifications

Model Number	PSL-10-1T	PSL-10-2T	PSL-10-6T	PSL-10-TT
Pulse Width (ps)	1.2 at one λ 1.5 across λ range	< 2.0	< 6.0	1.5–10 adjustable
Output Wavelength (nm)	1545 - 1560	1530 - 1565	1530 - 1565	1530 - 1565
Repetition Rate (GHz)	5 - 11	5 - 11	5 - 11	5 - 11
Timing Jitter (fs)	< 75	< 75	< 75	< 75
Amplitude Noise (%)	< 1.0	< 1.0	< 1.0	< 1.0
Output Power at 10 GHz (mW)	> 20	> 20	> 20	> 20
Operating Temp (°C)	15 - 30	15 - 30	15 - 30	15 - 30
Operating Voltage (V)	85 - 264 AC	85 - 264 AC	85 - 264 AC	85 - 264 AC
Dimensions (cm)	48(w) x 42(d) x 9(h)	48(w) x 42(d) x 9(h)	48(w) x 42(d) x 9(h)	48(w) x 42(d) x 9(h)

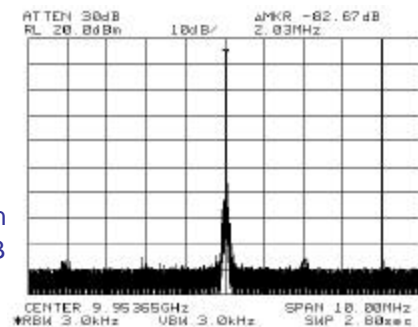
Specifications are subject to change without notice - 6/21/2004

Pulse Width



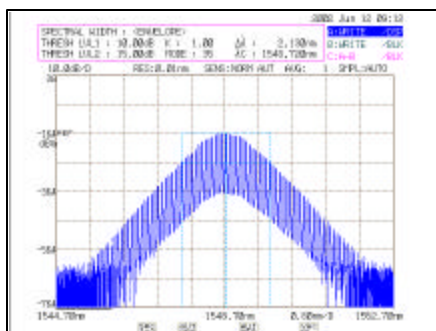
Pulse Width = 1.3 ps

Sidemode Suppression



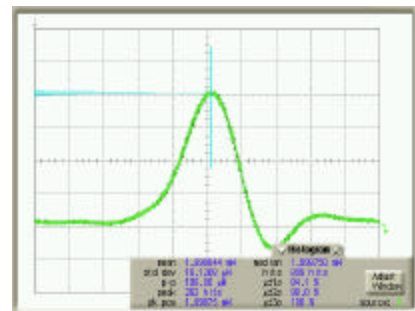
Sidemode Suppression = 82 dB

Spectral Width



Spectral Width = 2.1 nm

Amplitude Noise



Amplitude Noise = 0.8 %