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Newsletter

January 2010



780nm Femtosecond Fiber Laser ([FPL-03R](#))

Repetition rate: 10 ~ 50 Hz selectable;
Wavelength: ~ 780 nm;
Pulse width: <0.1 picoseconds;
Bandwidth: a few nanometers;
Output power: up to 50 mW;
Pulse energy >1 nJ;
Beam quality: $M^2 < 1.1$;
Output: Free space or fiber pigtail;
Polarization extinction ratio: ~20 dB;
OEM module or bench top system;
Higher output power up to 500 mW available.



Fiber Laser based Chirped Pulse Amplifier ([FLCPA](#))

Pulse energy: up to 20 μ J;
Repetition rate: up to 500 kHz;



Invitation

You are sincerely invited to visit us at Bios 2010 (Booth #8529, Jan. 23 ~ 24) and Photonics West 2010 (Booth 529, Jan. 26 ~ 28) in San Francisco, California, and to see our ULTRA-FAST PULSE FIBER LASER products.

We will do a live demonstration of [780 nm 50 mW femtosecond fiber laser](#) and [1.55 \$\mu\$ m OEM femtosecond fiber seed laser module](#). We will be showcasing some of our products including fiber laser chirped pulse amplifier (FLCPA) with pulse energy up to 20 μ J; high power ultrashort pulse amplifier.

[High Power Ultrashort Pulse Fiber Amplifier](#)

[Wavelength: C-band or 1.0 \$\mu\$ m band;](#)
[Average power: up to 2 Watts;](#)
[Low chromatic dispersion;](#)
[Low nonlinearity;](#)
[Low pulse and spectrum broadening;](#)
[Application: Short pulse amplification.](#)

[Improvements on Picosecond Fiber Laser PSL-10](#)

Our well known 10GHz picosecond fiber laser [PSL-10](#) is easy to lock with long term locking stability. Recently we have expanded its mode locking repetition rate range significantly to cover 5 ~ 20 GHz continuously tunable, while all the other great specifications are kept uncompromised.

[OEM Femtosecond Fiber Seed Laser Module](#)

Calmar has been delivering hundreds of OEM femtosecond fiber seed laser modules to customers worldwide, including 780, 1060, 1550, 1587 nm wavelength bands. Output power

Pulse width: < 600 fs;
Wavelength: 1.0 μm band or
C-band;
Packaging: OEM or stand alone
system;
Beam diameter: ~ 3 mm;
Beam quality: $M^2 < 1.2$.

ranges from milliwatt to subwatt. The modules are compact, shock-proof, reliable, and stable with consistent operation from unit to unit.

Updated Website and Catalog

Calmar Laser's updated website at www.calmarlaser.com helps you understand our company and find the products you need. Among the many new updates, you will find the following:

[An Application Matrix](#)

[Technology update and new White Papers](#)

[New catalog](#)

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