

# 1.06 $\mu\text{m}$ Femtosecond Fiber Lasers

## FFL-1M Series

## PICOSECOND and FEMTOSECOND FIBER LASERS at 1.06 $\mu\text{m}$

PriTel's FFL Series of 1060 nm Picosecond and Femtosecond Fiber Lasers are designed for R&D applications in telecommunications, fiber lasers, optical switching, measurement of optical fiber dispersion and nonlinearities, and others.

Primary optical output of the FFL is PM.

The FFL is self-starting, easy to use and requires no ancillary equipment for operation. This FFL is a "turnkey" source.

The **Quick-Change Pulseswidth** feature is standard on every FFL model. This design enables the user to change the operating pulseswidth of the FFL within minutes just by replacing a self-aligning cartridge.



## Specifications

### FFL-1M

Wavelength	1.040 $\mu\text{m}$ to 1.080 $\mu\text{m}$ , tunable
Pulsewidth	2 ps to 10 ps
Optical bandwidth	0.22 nm @ 8 ps
Pulse repetition freq.	5 -100 MHz (Fixed)
Average output power	Varies with repetition rate and pulse width 10 mW @ 100 MHz
Timing Jitter *	< 1 ps
<b>Optical</b>	
Gain medium	Yb-doped silica fiber
Pump source	Diode laser
Connectors	FC/PC (other connectors available on request)
<b>Environmental</b>	
Operating temperature	+15 to 30°C
Storage temperature	-20 to 50°C
<b>Electrical/ Mechanical</b>	
Operating Voltage	85-264 VAC at 47-63 Hz
Power consumption	<250 W
Dimensions (4U)	10 cm x 26 cm x 36 cm
Weight	8 kg

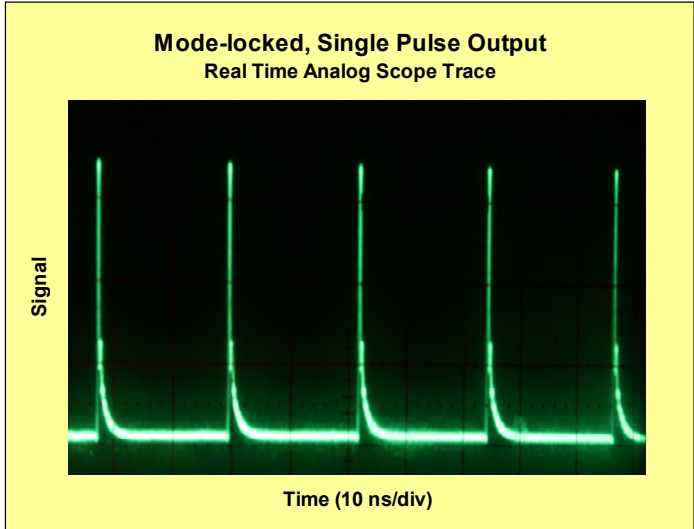
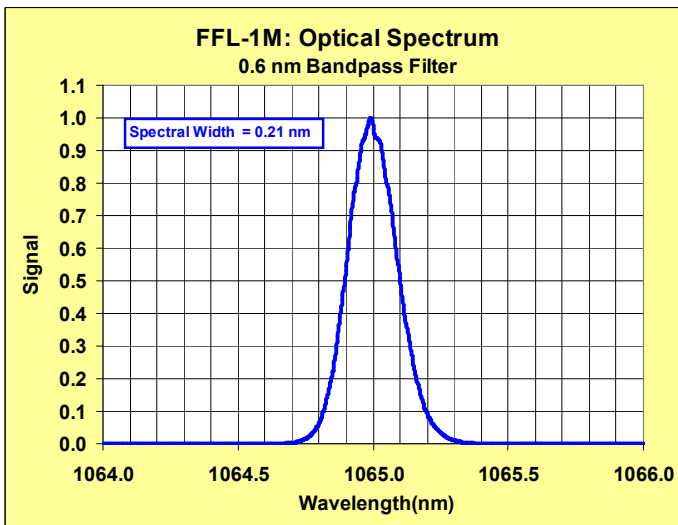
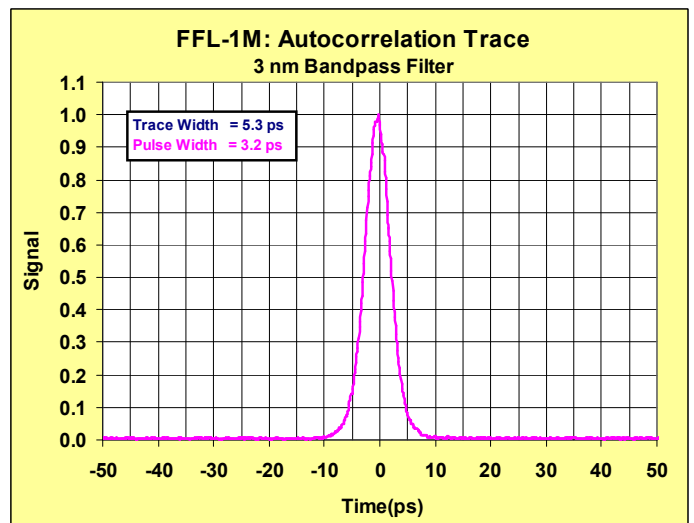
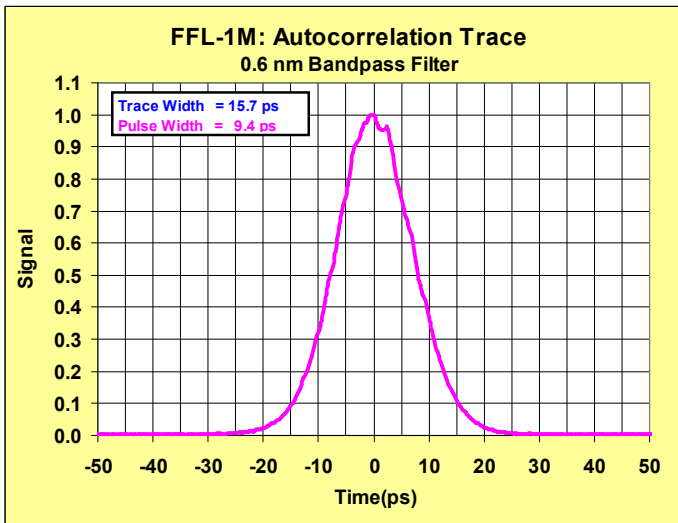
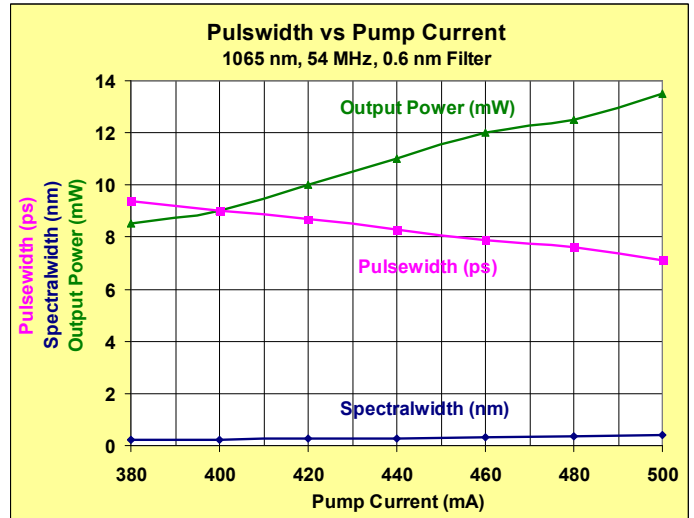
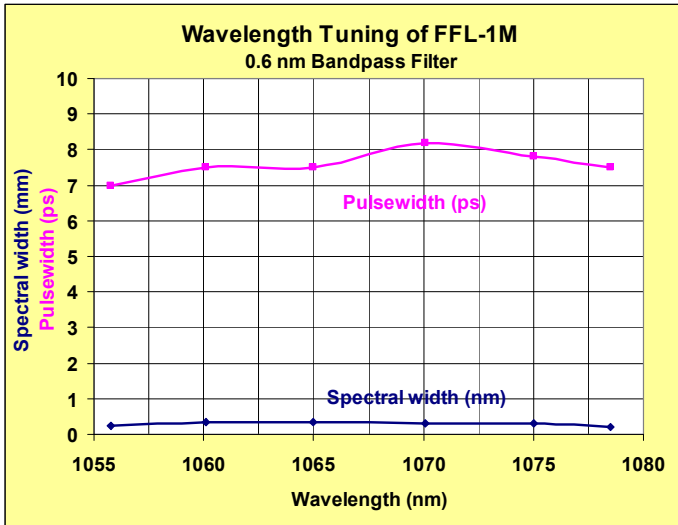
**Note:** The FFL Series offers front-panel electrical sync pulse output for synchronizing the optical pulse train to an external system.

\* Defined as short-term, pulse-to-pulse jitter.



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# Typical Performance of PriTel's FFL -1M



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