FFL-1M Series

PICOSECOND and FEMTOSECOND FIBER LASERS at 1.06 µm

NEW!

Wavelength Tunable 1.06 µm Laser

PriTel's FFL-1M Series of 1.06 µm 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 a "turnkey" source—self-starting, easy to use, and requiring no ancillary equipment for operation.

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

PriTel

Specifications

FFL-1M	
Pulse repetition rate	5-50 MHz, fixed
Tunable wavelength	1055-1085 nm
Pulsewidth*	4 ps
Average output power	Varies with pulsewidth and pulse repetition rate (e.g., 0.5 mW at 4 ps and 20 MHz)
Timing jitter**	<1 ps
Spectral width	>1 nm at 4 ps
Optical	
Gain medium	Yb-doped silica fiber
Pump source	980 nm diode laser
Connectors	FC/APC (other connectors available on request)
Environmental	
Operating temperature	+15 to 30°C
Storage temperature	-20 to 50°C
Electrical/ Mechanical	
Operating Voltage	85-264 VAC at 47-63 Hz
Power consumption	<125 W
Dimensions (2U)	10 cm x 26 cm x 36 cm
Weight	9 kg

Note: The FFL-1M Series offers front-panel electrical sync pulse output for synchronizing the optical pulse train to an external system.

* Inquire about other pulsewidths.

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

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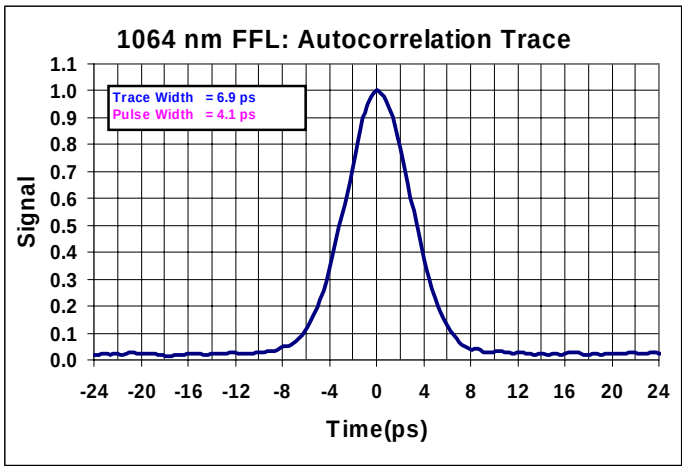
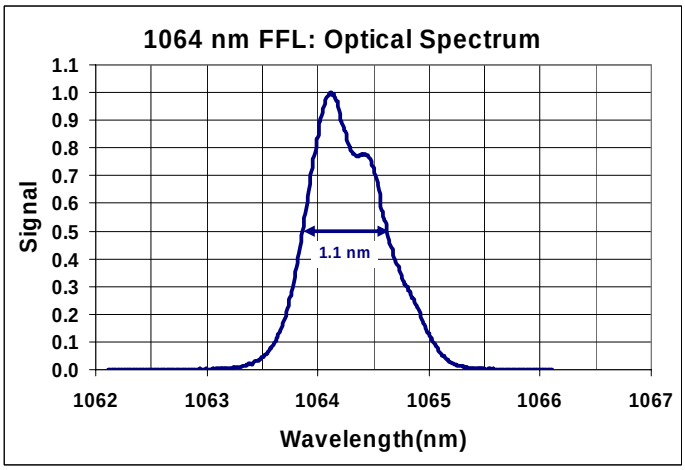
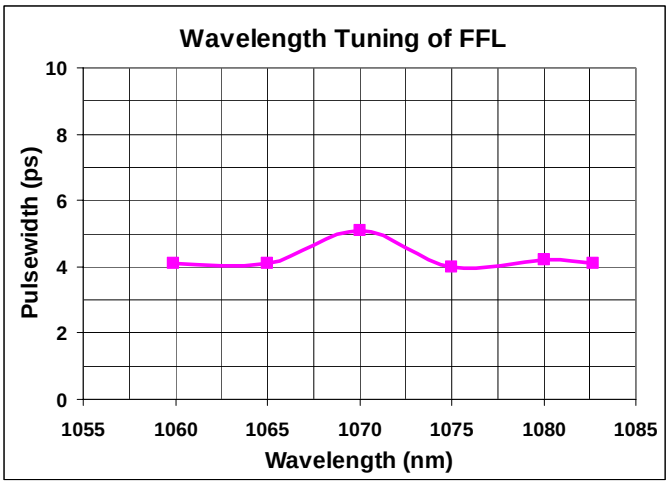
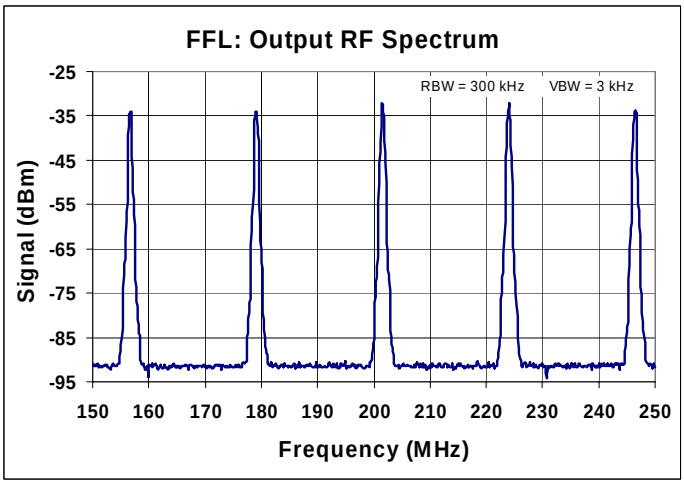
Typical Performance of PriTel's 1.06 µm Picosecond Fiber Lasers









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