

1550 nm Femtosecond Fiber Lasers

FFL-FR Series

FEMTOSECOND FIBER LASERS

PriTel's FFL-FR Series of 1550 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. Optional items are electrical sync output and secondary optical output.

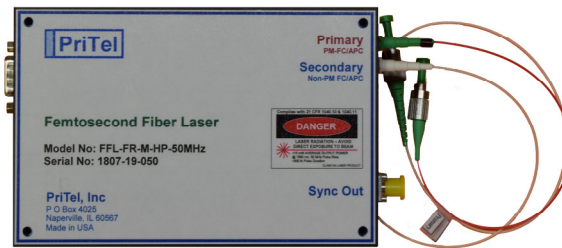
The FFL is self-starting, easy to use and requires no ancillary equipment for operation. This FFL is a "turnkey" source.

The FFL-FR is a "free running" laser without any wavelength selective filter. It lases at ~1557 nm and typical pulsewidth is < 300 fs.

FFL-FR model without Electrical Sync and Secondary Optical Outputs



FFL-FR model with Electrical Sync and Secondary Optical Outputs



FFL-FR model in module form with Electrical Sync and Secondary Optical Outputs

Specifications

FFL-FR

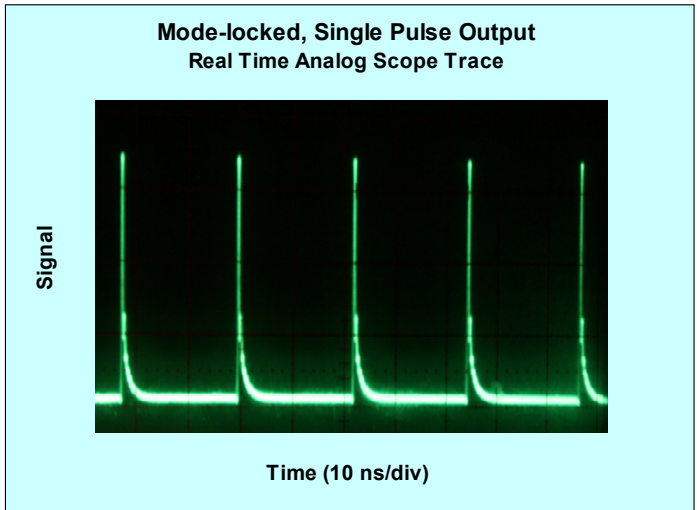
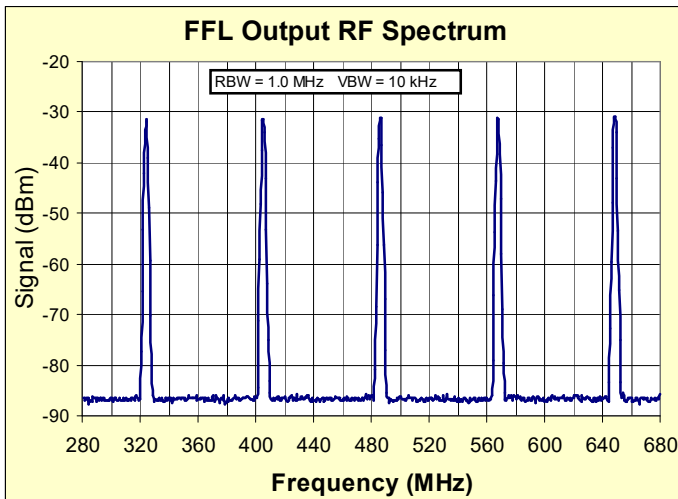
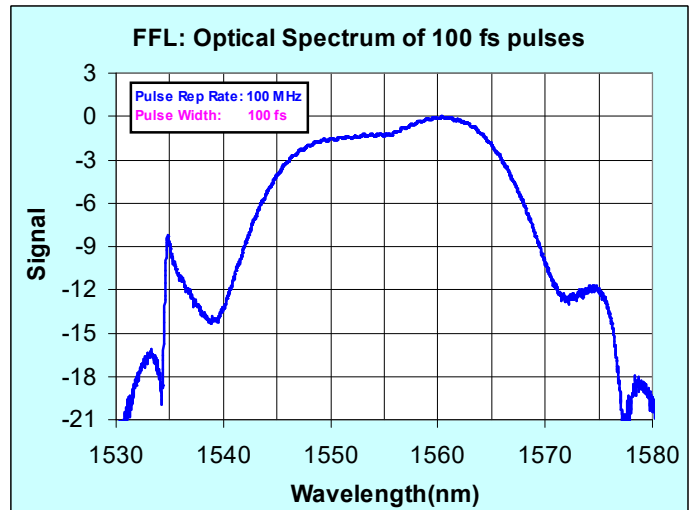
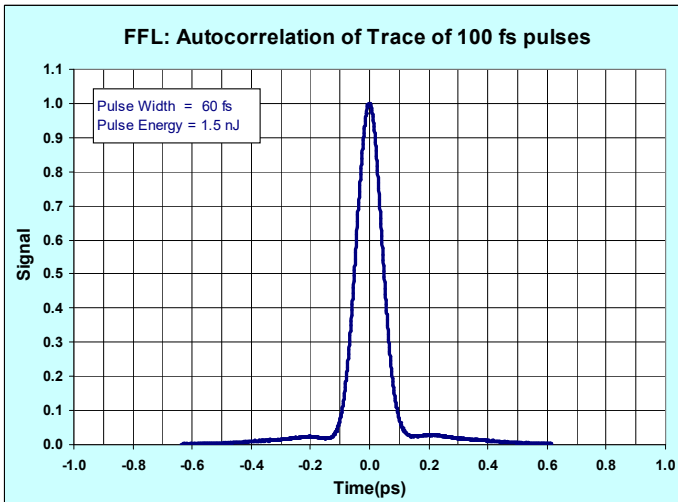
Pulse repetition rate	20 MHz - 100 MHz (fixed, customer needs to specify)
Pulse width	<100 fs to <300 fs (fixed)
Spectral width	~30 nm @ 100 fs, ~10 nm @ 300 fs
Center Wavelength	1550 nm band
Average output power	up to 100 mW @ 100 MHz (Varies with pulse repetition rate)
Optical Timing jitter*	<25 fs
Optical	
Gain medium	Er-doped silica fiber pumped by 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	<50 W
Dimensions (2U)	10 cm x 26 cm x 36 cm
Weight	7 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.



Typical Performance of PriTel's FFL-FR



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