

## FFL Series

# PICOSECOND and FEMTOSECOND FIBER LASERS

PriTel's FFL 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.

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**

Pulse repetition rate	5-100 MHz, fixed		
Average output power	Varies with pulseswidth and pulse repetition rate (e.g., >4 mW at 2 ps and 20 MHz)		
Timing jitter*	<1 ps		
<i>Pulseswidths available**</i>	<i>Spectral width (nm)</i>	<i>Tunable wavelength (nm)</i>	<i>Peak Power (W)</i>
<10 ps	>0.3	1530-1560	>50
<5 ps	>0.4	1530-1560	>50
<2 ps	>1.0	1530-1560	>100
<600 fs	>3.5	1530-1560	>100
<150 fs	>15	Fixed wavelength	>100

#### **Optical**

Gain medium	Er-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 Series offers front-panel electrical sync pulse output for synchronizing the optical pulse train to an external system.

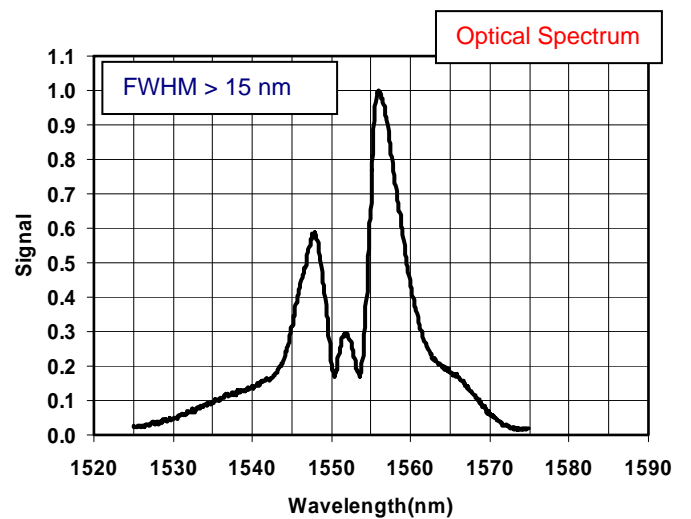
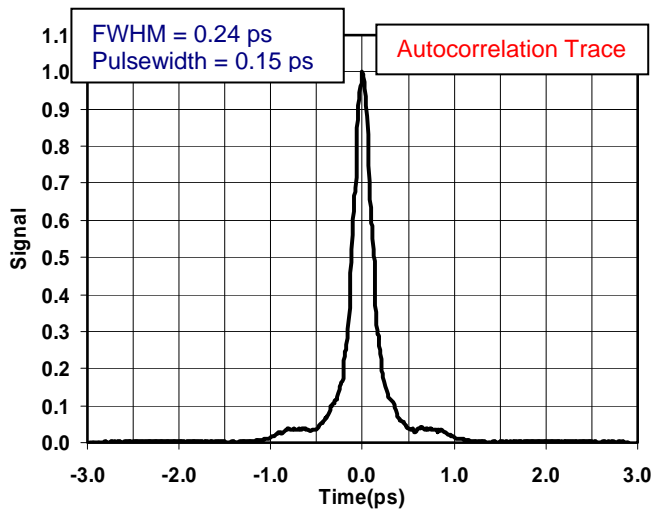
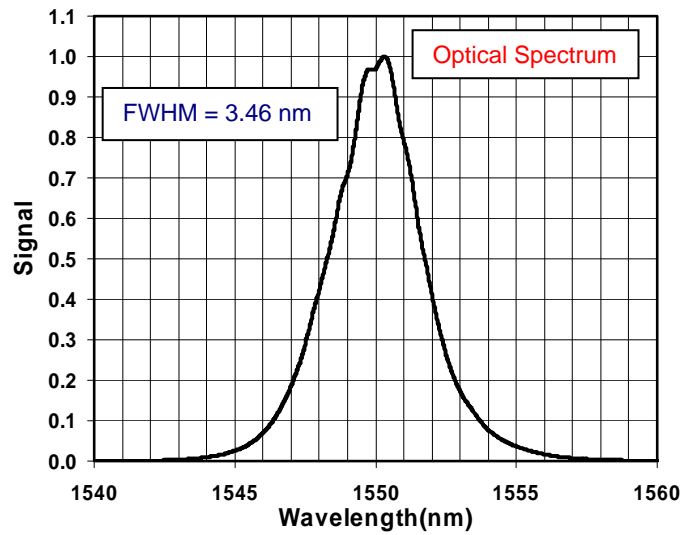
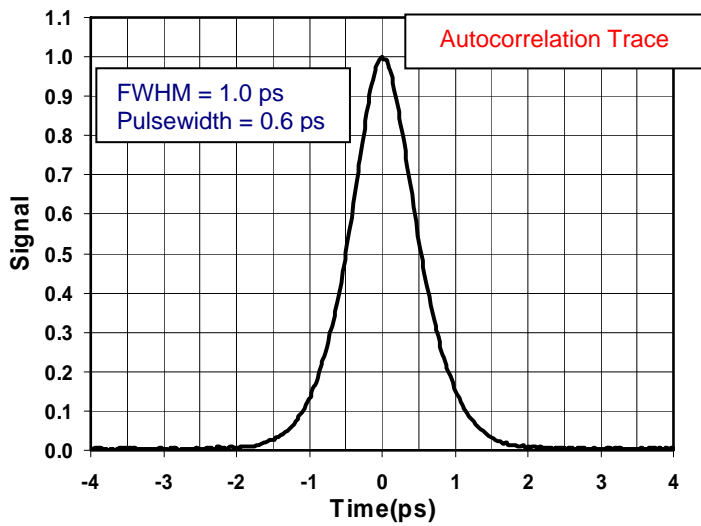
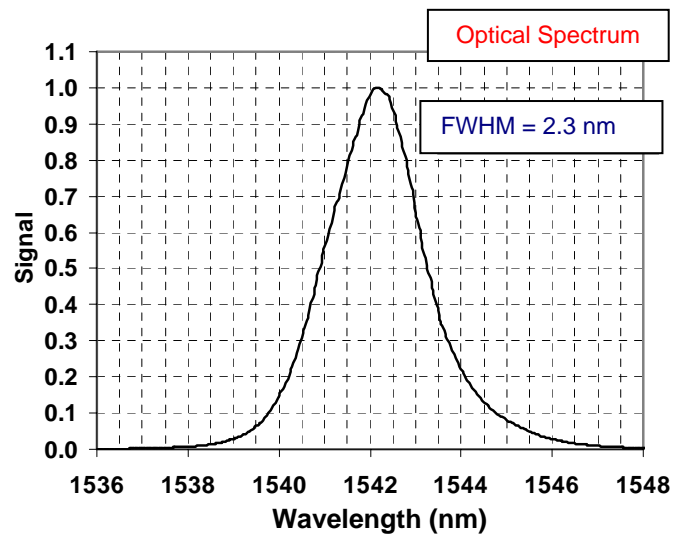
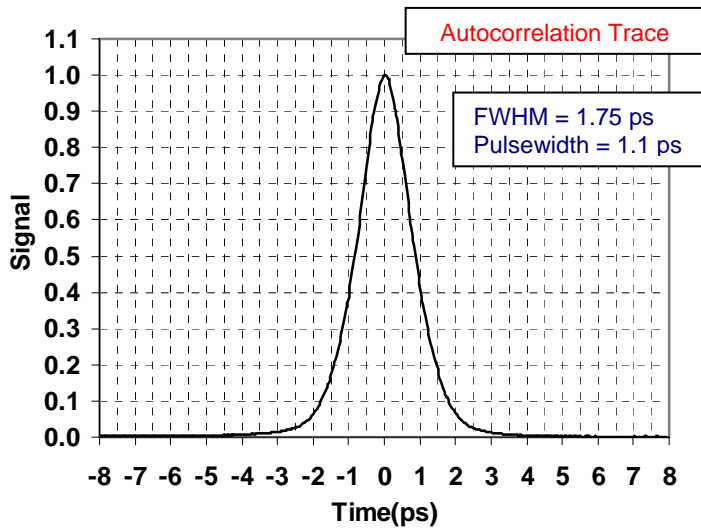
\* Defined as short-term, pulse-to-pulse jitter.

\*\* Inquire about special pulseswidths.

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## Typical Performance of PriTel's Picosecond and Femtosecond Fiber Lasers



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