

1550 nm Femtosecond Fiber Lasers

FFL-W Series

WIDE TUNING RANGE PICO-SECOND and FEMTOSECOND FIBER LASERS

PriTel's FFL-W Series of 1550 nm Picosecond and Femtosecond Fiber Lasers tune over a wide wavelength range of 1517 nm - 1570 nm. They are designed for R&D applications in telecommunications, optical switching, photonic crystals, and others.

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

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



Specifications

FFL

Pulse repetition rate	5-50 MHz, fixed		
Average output power	Varies with pulswidth and pulse repetition rate (e.g., >2 mW at 2 ps and 20 MHz)		
Timing jitter*	<1 ps		
<i>Pulswidths available**</i>	<i>Spectral width (nm)</i>	<i>Tunable wavelength (nm)</i>	<i>Peak Power (W)</i>
< 10 ps	> 0.3	1517-1570	> 10
< 5 ps	> 0.4	1517-1570	> 25
< 2 ps	> 1.0	1517-1570	> 50
< 700 fs	> 3.5	1517-1570	> 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	< 50 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.

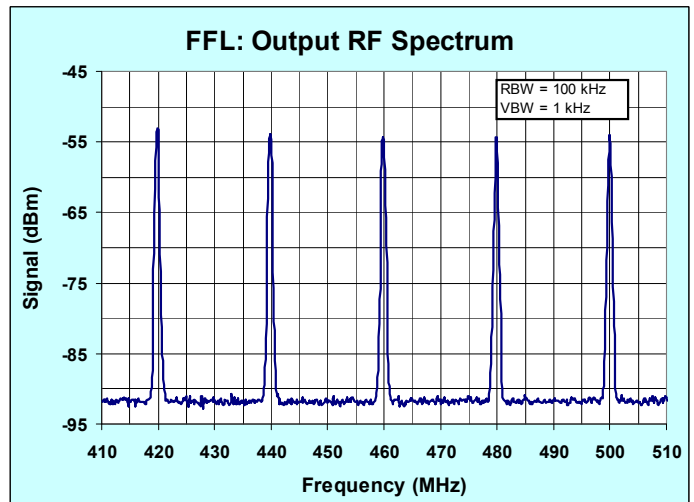
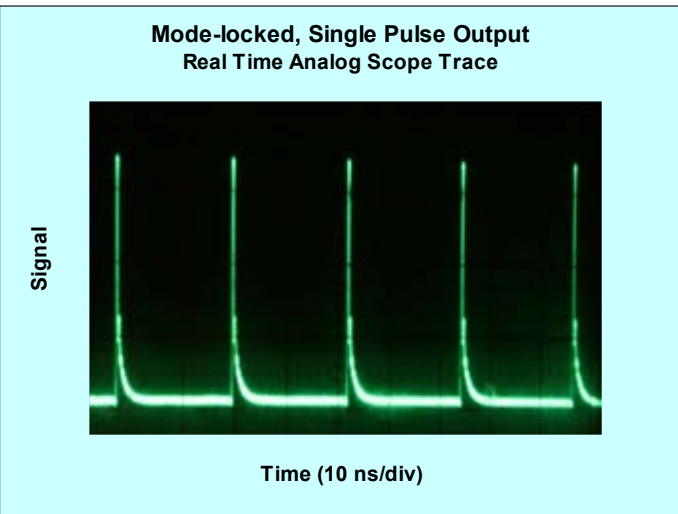
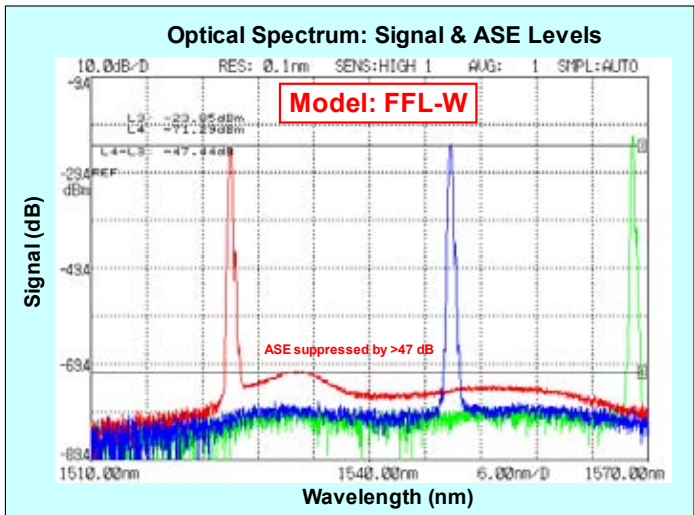
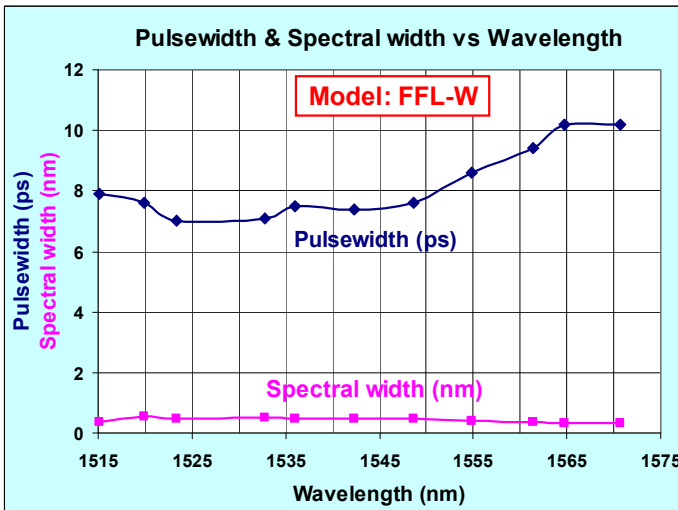
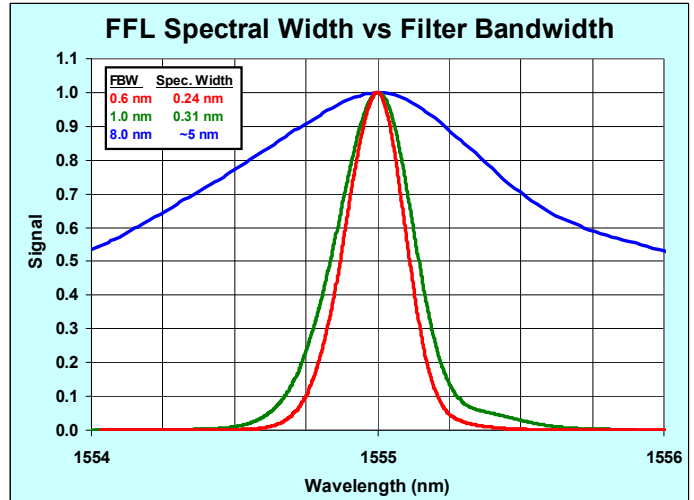
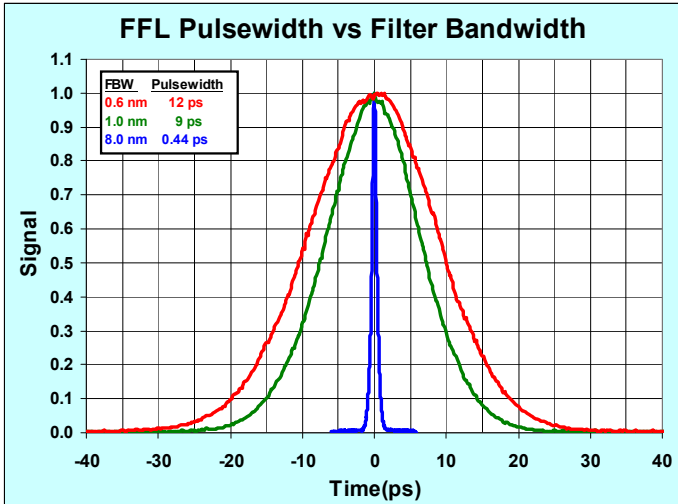
* Defined as short-term, pulse-to-pulse jitter.

** Inquire about special pulswidths.



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Typical Performance of PriTel's FFL-W



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