

FP Series

FEMTOPULSE™ OPTICAL PULSE COMPRESSOR

PriTel's FP Series of FEMTOPULSE™ Optical Pulse Compressors are designed for use with the UOC Ultrafast Optical Clock in R&D applications in optical switching, measurement of optical fiber dispersion and nonlinearities, and terahertz fiberoptics.

FEMTOPULSE™ Optical Pulse Compressors utilize specialty fibers to temporally compress transform-limited input pulses. Units are custom-designed to meet performance requests.

An integrated EDFA is used to boost the pulse peak power before input to the specialty fiber. The front panel connections allow the EDFA to be used as a stand-alone amplifier for other applications.



Specifications

FP-400

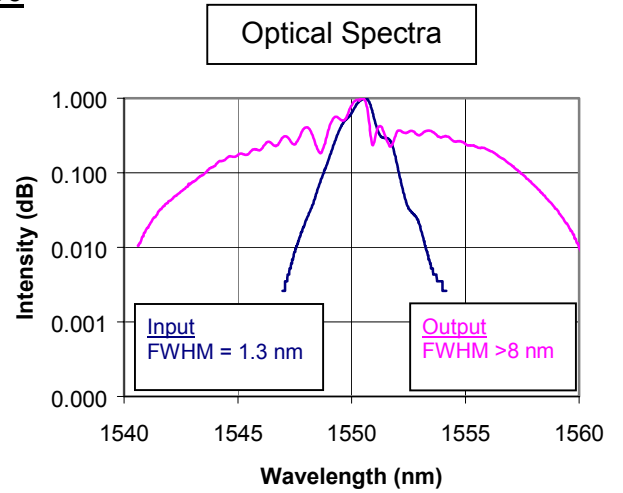
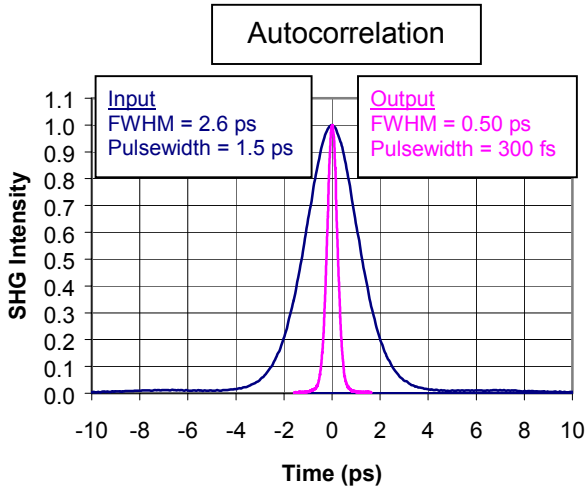
Input wavelength	1548-1555 nm
Pulsewidth	<400 fs (3 ps input) at a specific wavelength
Spectral width	>6 nm at a specific wavelength
Average output power	Varies with input pulse repetition frequency (e.g., >100 mW at 10 GHz)
Peak power	>10 W at 10 GHz
Max. energy in pedestals	<5%
Optical	
Gain medium	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 (3U)	15 cm x 26 cm x 28 cm
Weight	9 kg

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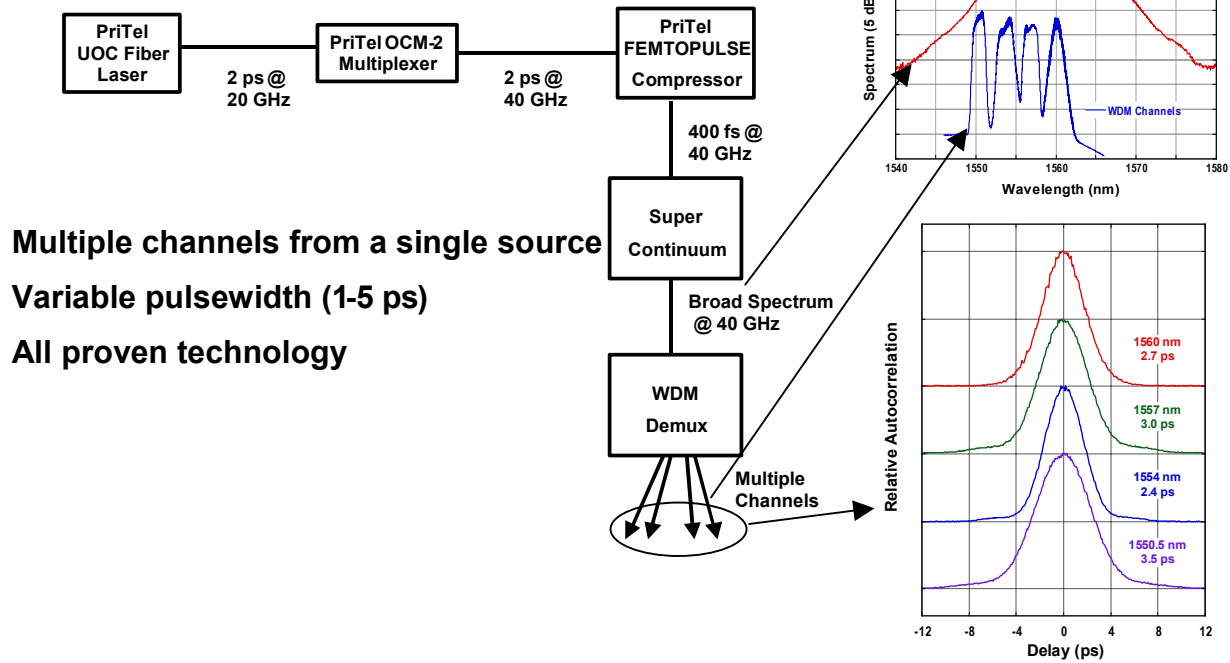
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Typical Performance of PriTel's FEMTOPULSE™ Optical Pulse Compressors at 10 GHz

Model FP-400



Typical Application Spectral Slicing



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