

UOC-R Series

ULTRAFAST OPTICAL CLOCKS with Regenerative Mode-locking

PriTel's UOC-R Series of Ultrafast Optical Clocks are easy-to-use mode-locked fiber lasers that do not require an external RF synthesizer. In this series, regenerative mode-locking is used to provide the internal RF reference.

The UOC-R Series is available with other pre-selected fixed repetition rates.

The UOC-R has an RF output at the frequency of the laser that can be used for triggering and other synchronizations.



Specifications

UOC-R

Pulse repetition rate $9.95 \text{ GHz} \pm 0.010 \text{ GHz}$, fixed (other rates on custom basis)

Wavelength $1550 \pm 1 \text{ nm}$

Average output power $\geq 10 \text{ mW}$

Sideband suppression $>80 \text{ dB}$

Pulsewidth 2.5 ps

Spectral width 1.0 nm

Optical

Gain medium Er-doped silica fiber

Pump source 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 <250 W

Dimensions (2U) 9 cm x 48 cm x 38 cm

Weight 20 kg

The UOC-R Series provides three secondary optical outputs for monitoring system performance by a photodiode, optical spectrum analyzer, or power meter.



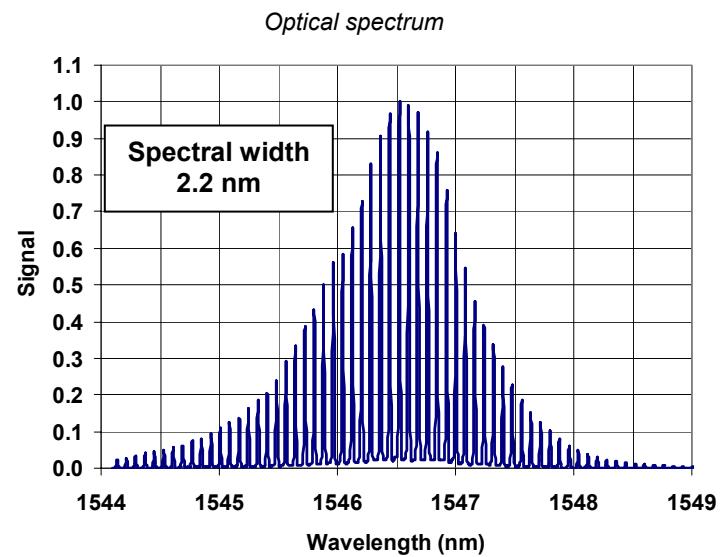
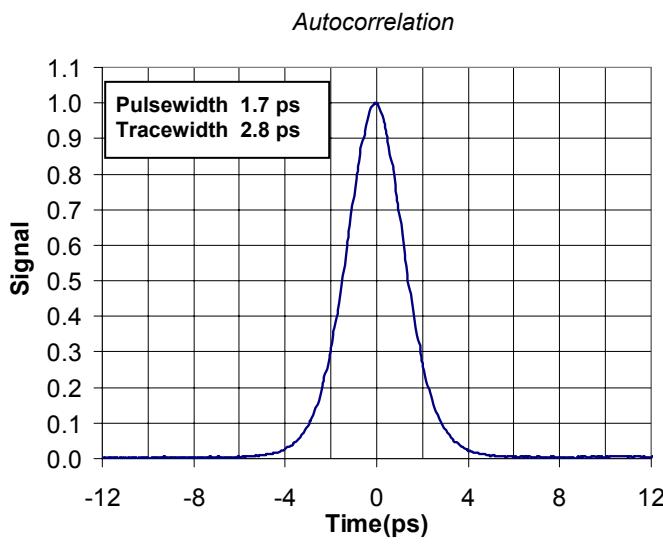
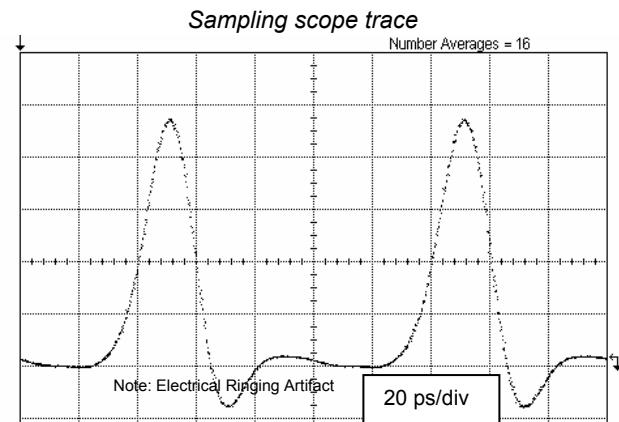
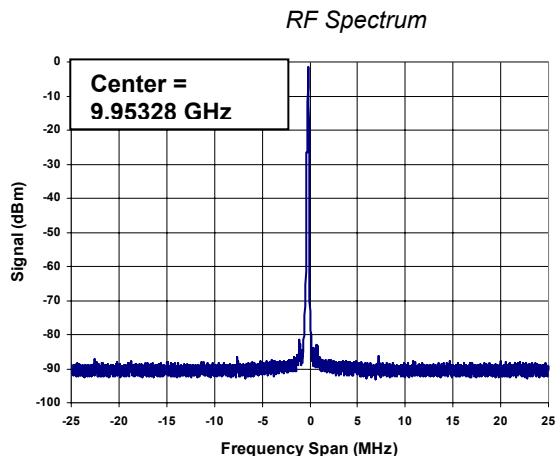
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Typical Performance of PriTel's UOC-R Ultrafast Optical Clock



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