Red Ultrafast Optical Clock

UOC-1M Series

ULTRAFAST OPTICAL CLOCKS at 775 nm

In response to customer requests, PriTel announces the 775 nm UOC. This high performance unit provides short pulses for materials research and low jitter pulses for a variety of research applications.

PriTel's UOC Series of Ultrafast Optical Clocks are easy-to-use actively-mode-locked fiber lasers that provide high pulse-repetition frequencies and high average output powers for R&D applications.

An internal microcomputer monitors the optical pulses and maintains mode-locking. After initial setup, the UOC requires no supervision.

Specifications

	UOC-775
Wavelength	775 nm
Pulsewidth	2 ps to 15 ps
Optical bandwidth	0.5 nm @ 5 ps
Pulse repetition freq.	100 MHz
Type of Mode-Locking	Actively mode-locked to External reference RF clock
Timing Jitter	< 100 fs
Average output power	> 1 mW
Sideband suppression	>60 dB
Optical	
Gain medium	Er-doped silica fiber
Pump source	Diode laser
Connectors	FC/PC (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	<100 W
Dimensions (4U)	48 cm x 38 cm x 10 cm
Weight	15 kg

The UOC Series provides two or three secondary optical outputs for monitoring system performance by a photodiode, optical spectrum analyzer, or power meter. Normal operation of the UOC Series requires an external RF synthesizer or clock, supplied by the customer.

PriTel

PriTel, Inc.
P.O. Box 4025, Naperville, IL 60567-4025, USA
Ph: 630-983-2200, Fx: 630-983-2260 (USA)
E-mail: PriTel@PriTel.com, Internet: www.PriTel.com