

NEW!

Product Bulletin

UOC-1M Series

ULTRAFAST OPTICAL CLOCKS at 1.06 μm

In response to customer requests, PriTel announces the 1.06 μm UOC. This high performance unit provides short pulses for telecom 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 1.06 μm time-division-multiplexed communications R&D.

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

1.06 μm Ultrafast Optical Clock



Specifications

	UOC-1M
Wavelength	1.045 μm to 1.080 μm @ 10 GHz, tunable
Pulsewidth	10 ps to 3 ps, variable
Optical bandwidth	0.4 nm @ 8 ps
Pulse repetition freq.	5-14 GHz, 5-20 GHz, 40 GHz
Average output power	Varies with repetition rate 20 mW @ 10 GHz
Sideband suppression	>65 dB
Optical	
Gain medium	Yb-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	<250 W
Dimensions (4U)	48 cm x 38 cm x 18 cm
Weight	20 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.

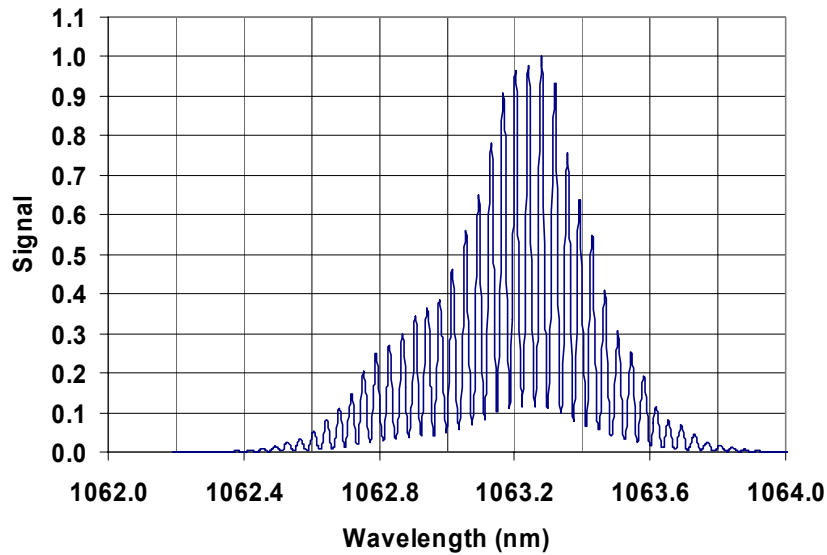


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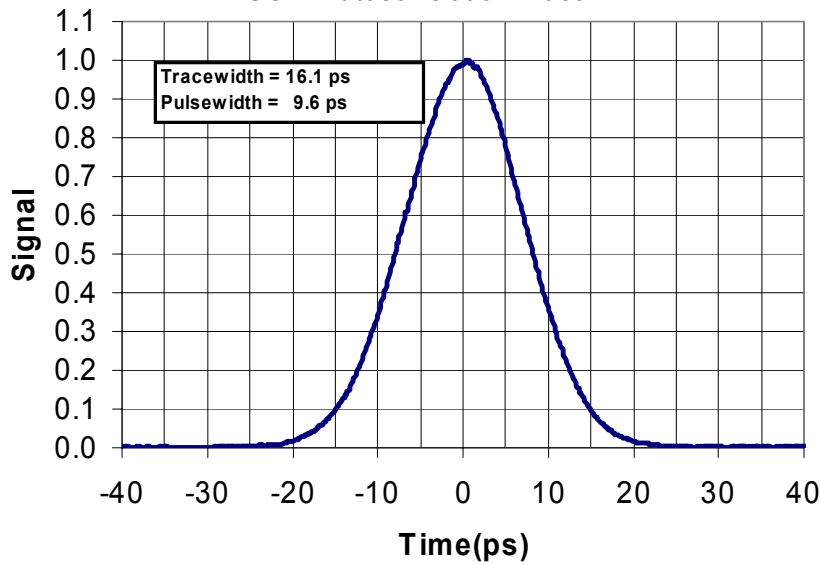
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Typical Performance of PriTel's UOC -1M at 9.95328 GHz

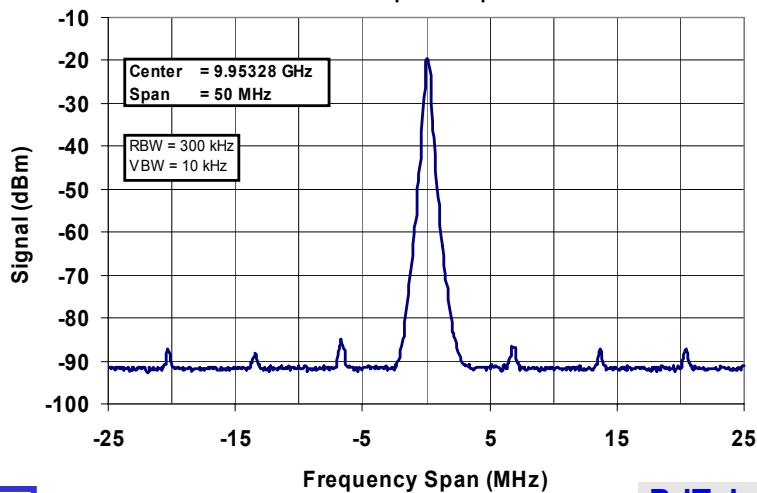
UOC: Optical Spectrum



UOC: Autocorrelation Trace



UOC: Output RF Spectrum



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