

OPP Series

OPTICAL PULSE PICKER

PriTel's OPP Series of Optical Pulse Pickers are designed for selecting optical pulses from an optical pulse train.

The OPP uses a modulator that is driven by an external RF signal synchronized to the input optical pulse train. A countdown scaler in the driver circuit selects the output pulse rate and a variable delay controls the phase between the electrical and optical inputs.

The OPP produces optical pulse trains with a low insertion loss and excellent rejection of the input frequency.



Specifications

OPP

Input wavelength	1550 nm
Input pulsewidth	< 1 ns
Insertion loss	< 4 dB (for picked pulse)
Input pulse repetition rate	< 60 MHz
Input/Output fibers	PM – Key aligned to slow axis
Output pulse repetition rate	Input divided by 2^N or 10^N (fixed or adjustable)
Picking ratio	1 in 2^N or 10^N (fixed or adjustable)
Extinction ratio	> 35 dB (< 30 MHz) > 20 dB (> 30 MHz)
Electrical sync output	Yes
Gating window duration	10 ns
Maximum input power	50 mW @ 20 MHz
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 (3U)	10 cm x 26 cm x 36 cm
Weight	9 kg

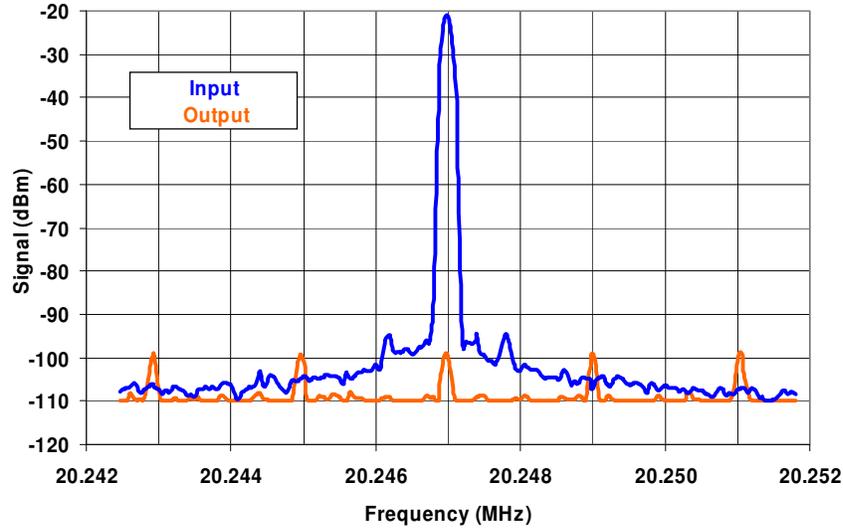


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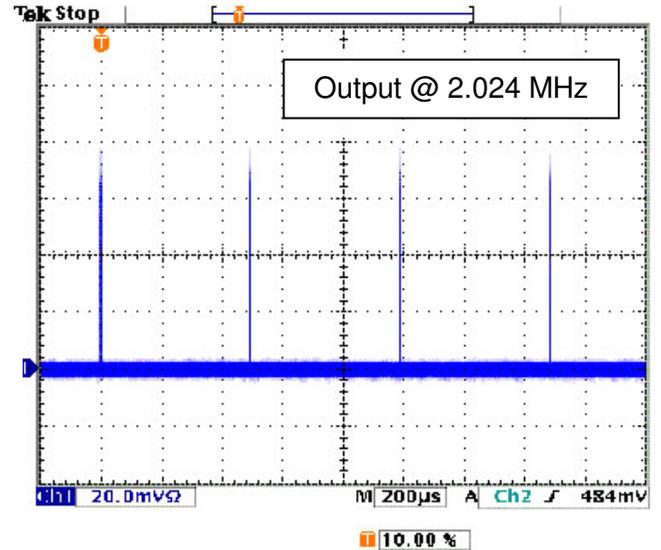
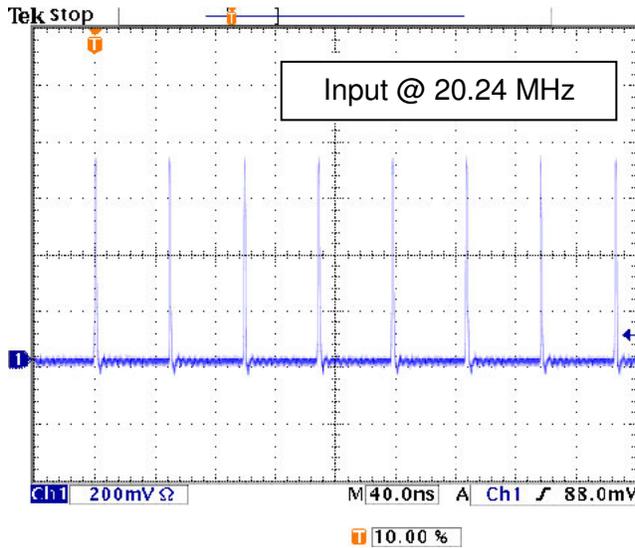
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Typical Performance of PriTel's OPP at 20.247 MHz

RF Spectrum of Input/Output Optical Pulse



Time Domain Scope Traces of Input/Output Optical Pulse Train



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