

OPP-AO Series

OPTICAL PULSE PICKER

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

The OPP uses an Acousto-Optic Modulator (AOM) that is driven by an electrical signal synchronized to the input optical pulse train.

A **USB programmable** countdown pre-scaler in the driver circuit selects the output pulse rate and a preset delay controls the phase between the electrical and optical inputs. The OPP produces optical pulse trains with a low insertion loss and excellent rejection (>40 dB) of the input frequency.



Specifications

Model	OPP-AO-1550-USB
Operating Wavelength	1550 nm band
Insertion Loss	< 6 dB (for picked pulse)
Input Pulse Repetition Rate	<= 40 MHz
Output pulse repetition rate	Input divided by 4 to 10,000,000
Picking Ratio	1 in 4 to 1 in 10,000,000 (USB Programmable)
Gating window duration	< Input period
Extinction Ratio (ER)	> 40 dB (>20 dB for immediate neighboring blocked pulse)
Synchronization to External Clock	Yes
Electrical Sync Output	Yes
Input/Output fibers	PM – Key aligned to slow axis
Maximum input power	100 mW
Environmental	
Operating temperature	+10 to 40°C
Storage temperature	-20 to 50°C
Electrical/ Mechanical	
Operating Voltage	85-264 VAC at 47-63 Hz
Power consumption	<100 W
Dimensions	10 cm x 26 cm x 36 cm, 8 Kg



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Typical Performance of Optical Pulse Picker

