



## Integrated Optical Pulse Picker

### Waveguide-based electro-optical light modulator



The Pulse Picker allows for a reliable reduction of high pulse laser repetition rates. To achieve this, a fiber-coupled electro-optical amplitude modulator and control & driver electronics are combined into a mutually adapted system. For normal operation, the Pulse Picker requires only the synchronizing signal of the laser source to be modulated.

Standard-designed Pulse Picker use polarization maintaining single mode fibers to couple the light in and out. They may also be configured with fiber systems or connectors of different types.

#### Benefits

- Short rise times
- High extinction
- Low modulation voltage
- Single mode fiber coupling

#### Application

- Reduction of laser pulse repetition rate in oscillator amplifier systems

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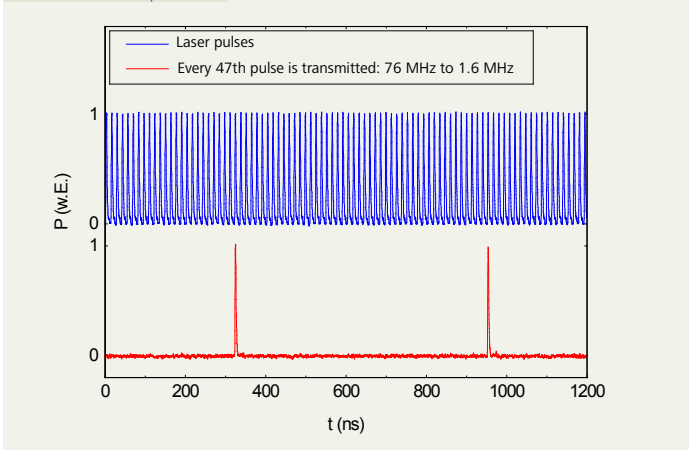
### Specifications

Wavelength	Approx. 1060 nm, others on request	
Fiber type	Polarization maintaining, single mode fiber	
Suitable for laser types	Pulse length > 3 ps, average power < 20 mW	
Rise time, typical	3 ns	
Extinction, typical	> 500:1 dc	
Repetition rate	Up to 80 MHz	
Time delay	In steps of 250 ps up to 50 ns	
Pulse selection	Every 4th to every 4000th	
Next / last pulse suppression	22 dB	
Trigger input	TTL, BNC (50 Ohm)	
Output to modulator	SMA (50 Ohm)	
Power supply	12 V dc, switching power supply, 60 W	
Dimensions	Modulator Controller	96 mm x 19 mm x 10 mm (L x W x H) 330 mm x 270 mm x 70 mm (W x D x H)

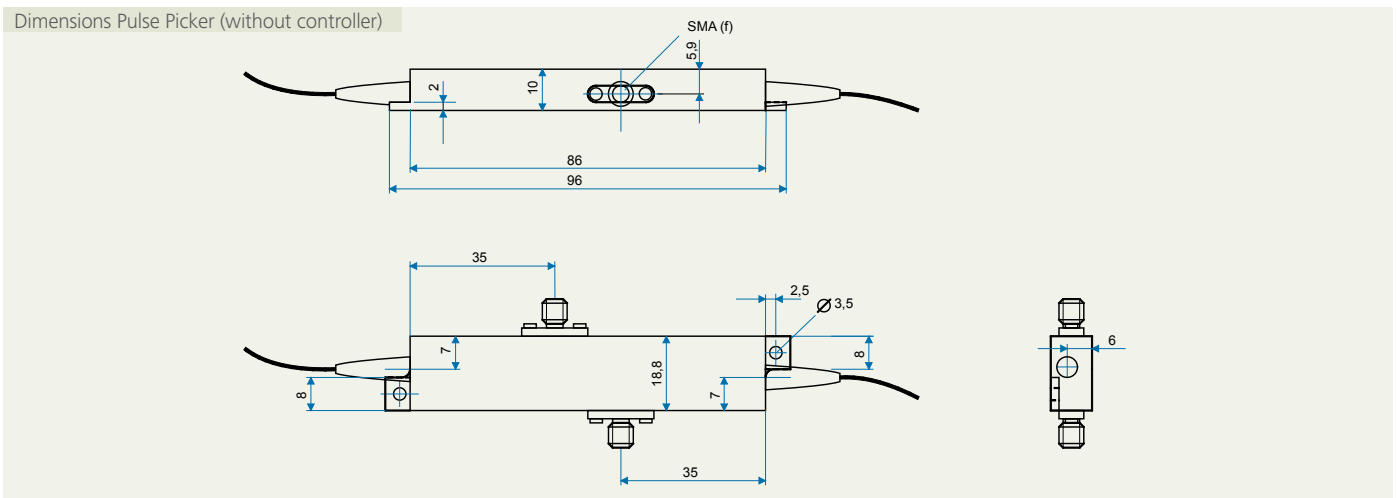
Pulse Picker with controller



Pulse Picker in operation



Dimensions Pulse Picker (without controller)



It is our policy to constantly improve the design and specifications. Accordingly, the details represented herein cannot be regarded as final and binding.



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