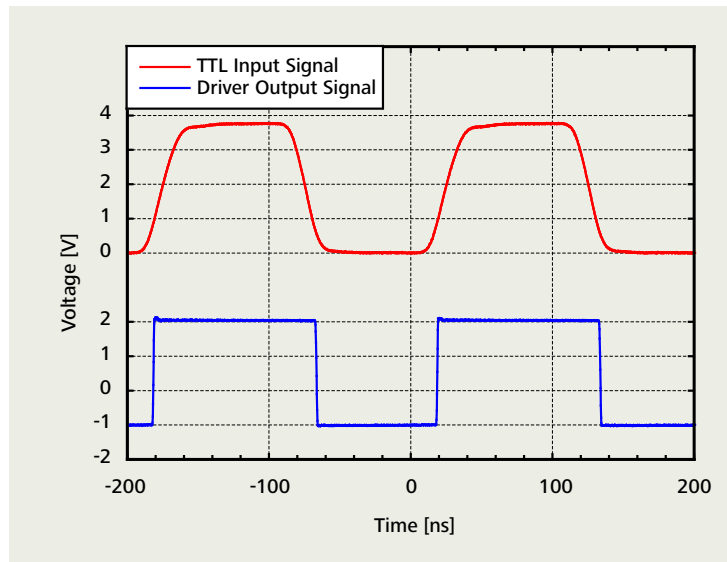




Driver for Integrated Optical Light Modulators

For generation of short light pulses and steep edges (1 ns)



The driver converts a TTL trigger signal into a proportional voltage of adjustable levels and with short rise times. Typically, the rise time of a TTL signal of 20 ns or more is converted into a slope with a rise time of 1 ns, respectively.

Combined with an integrated-optical amplitude modulator, the driver allows operation in two different modes: a switching mode for fast switching of a light source between „On“ state and „Off“ state, and a pulse mode for generation of a short light pulse via one switching operation.

Benefits

- Extremely short switching times
- 1 ns rise time, respectively

Applications

- Short light pulse generation
- Pulse generation in oscillator amplifier systems
- Laser range-finders
- Fluorescence stimulation
- Testing opto-electronic components

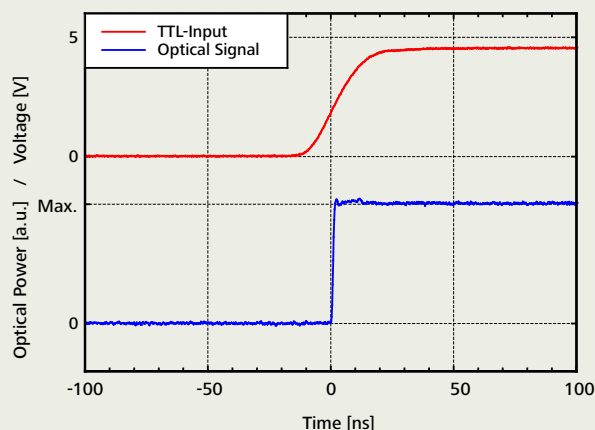
Driver for Integrated Optical Light Modulators

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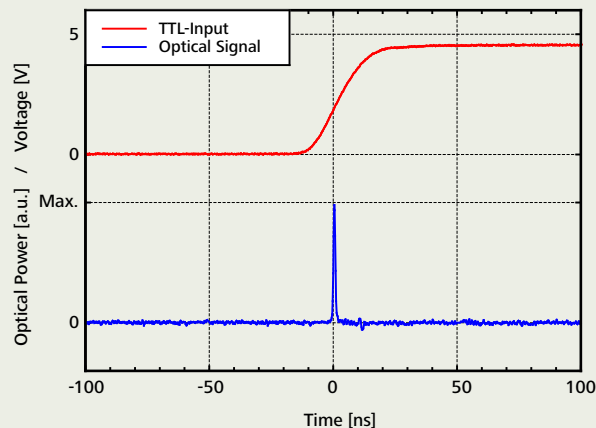
Specifications

Driver 1 ns		
Trigger	TTL, BNC (50 Ohm)	
Trigger edge	Rising and / or falling	
Trigger frequency	20 Mhz (maximum)	
Output to modulator	SMA (50 Ohm)	
Output voltage (connected to 50 Ohm)	Level 1	-2.5 V ... 0 V
	Level 2	0 V ... 5 V
Rise time (10 / 90), typical	1 ns, fix	
Power supply	18 V dc, switching power supply, 60W	
Dimensions (L x W x H)	65 mm x 150 mm x 265 mm	

Switching mode



Pulse mode



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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