

# Specifications

## $\lambda$ -Impulse Series

### Fourier Limit Pulse - Semiconductor Optical Amplifier

- 1ns Fourier-Limit Pulse Generate
- Optional 22, 50, 100 ps pulse support
- Pulses on demands (up to 125 MHz)
- High Pulse Extinction Ratio (>70dB)
- Compact and robust design
- Integrated controller and PC operation



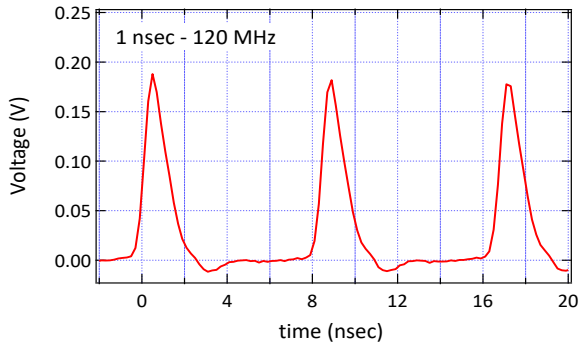
Parameter	MIN	TYP	MAX	UNIT
<b>Optical Gain</b>				
Gain Band (*1)	970		1080	nm
Small Signal Gain	30			dB
Pulse Width (*2)	1		10	ns
<b>Optical Output</b>				
Peak Power at PM-Fiber Out	100			mW
Polarization Extinction Ratio	20			dB
<b>Trigger</b>				
Internal	0.0015		125	MHz
External	Single Shot		125	MHz
Sync. Out	1 V TTL, BNC Terminal			
<b>General Specifications</b>				
Size	W430 x H88 x D200 mm			
Weight	2.0 kg or less			
Power Supply	AC 100V ~ 240V, 1A or less			

(\*1) 910-1000 nm is available. (\*2) Optional 22, 50, 100 ps pulse support.

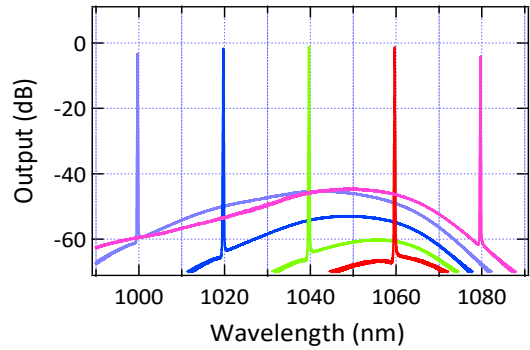
# Pulse Optical Amplifier

## 1 nsec Pulse Out

Time Profile

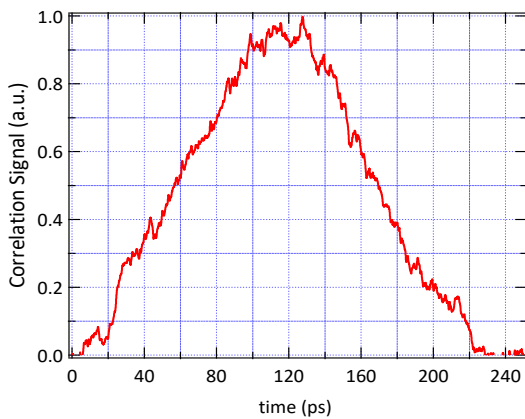


Spectra

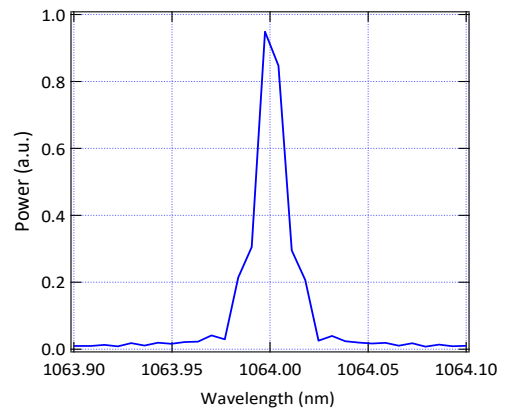


## 100 ps Pulse Out

Auto-Correlation

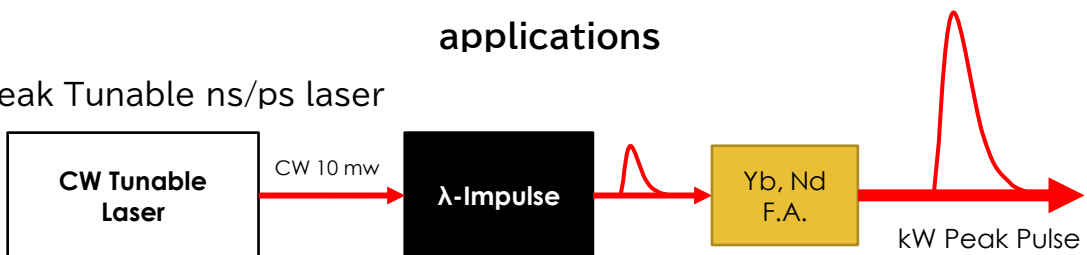


Linewidth



## applications

(1) kW peak Tunable ns/ps laser



(2) Multi-Color ps Sync. Pulse

