

# Pico/Nanosecond & CW DFB Laser

## 1024-1120nm, 1180nm



### Highly reliable, high-quality short pulsed/CW-DFB Laser source

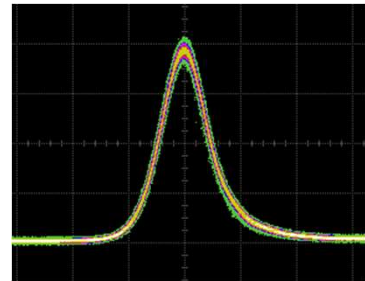
- Wide range of wavelengths and various pulse widths for enabling unique and advanced design of your equipment
- Highly stable pulse waveform without secondary peak for improving material processing and measuring accuracy
- Plug and play operation with optional driver board



### Application examples

- Seeder for high power laser
  - Micromachining
  - LiDAR
  - Semiconductor inspection equipment

Ex. SHG, THG (1064→532→355nm)



### Key Features

- Wide range of wavelengths (1024nm-1120nm, 1180nm:  $\Delta\lambda=+/-1\text{nm}$ )
- Excellent gain-switching pulse waveform without secondary peak
- Various operation modes (burst mode, pulse repetition rate, pulse width)
- 15ps/50ps pulse for high precision micromachining, and inspection
- Nanosecond pulse for micromachining and LiDAR
- Plug and play operation with optional the CW and pulsed laser driver
- Customization option available (wavelength, operation mode, pulse width)

### Specification

- Wavelength: 1024-1120nm (1nm step), 1180nm
- Pulse width: 15ps, 50ps, 1ns-20ns (-50ns: option)



## Specification/Laser\*

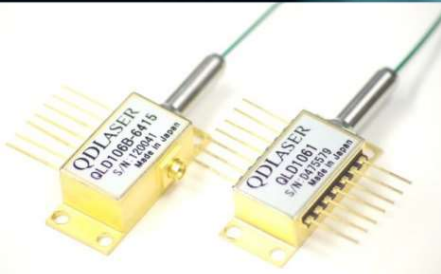
<b>Pulse Width</b>	<b>15ps</b>	<b>50ps, 1-20ns</b>	<b>1-20ns</b>	<b>CW</b>
<b>Wavelength</b>	<b>1030nm 1064nm</b>	<b>1024-1120nm 1180nm</b>	<b>1030nm 1053nm 1064nm</b>	<b>1024-1120nm 1180nm</b>
<b>Peak Power (Pulsed)</b>	<b>&gt;50mW</b>	<b>&gt;100mW</b>	<b>&gt;300mW &gt;400mW</b>	<b>n/a</b>
<b>Optical Power (CW)</b>	<b>n/a</b>	<b>n/a</b>	<b>n/a</b>	<b>&gt;30mW</b>

## Specification/Laser Driver\*

<b>Pulse Width</b>	<b>15-20ps</b>	<b>50ps-9ns</b>	<b>10ns-125ns</b>	<b>CW</b>
<b>Pulse Repetition Rate</b>	<b>12KHz- 200MHz</b>	<b>12KHz- 250MHz</b>	<b>3KHz- 1MHz</b>	<b>n/a</b>
<b>Maximum Current</b>	<b>100mA</b>	<b>200mA</b>	<b>2A</b>	<b>500mA 2A</b>

## Product Family

### Butterfly Package



### TO-CAN Package



### Laser Driver



### Gain Chip



\*Please contact us for other wavelengths and options

