



MCL Series 2.5ns Microchip Laser



Applications

- Photodynamic therapy
- Environmental monitoring
- Laser remote sensing
- LIDAR
- Spectroscopy
- Laser display

Key Features

- ◆ Pulse width down to 2.5ns
- ◆ Single pulse energy up to 50μJ
- ◆ Repetition rate up to 2kHz
- ◆ Spatial mode TEM₀₀
- ◆ Sealed package, high reliability

Technical Specifications

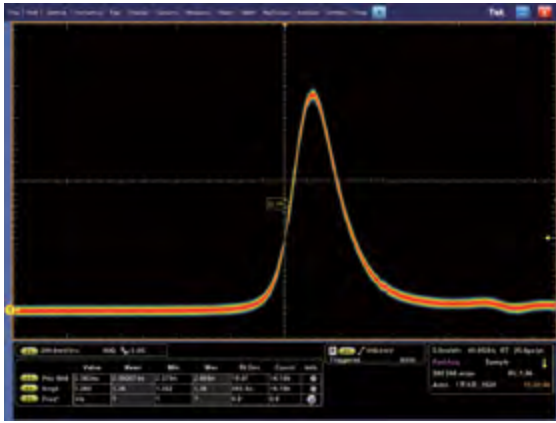
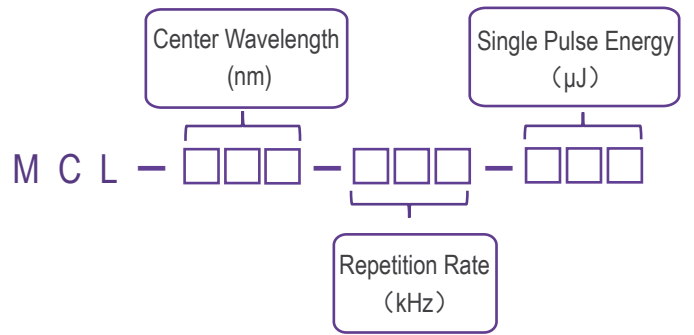
Optical Parameters				
Wavelength (nm)	1319		660	
Repetition rate (kHz)	0.1*	1*	0.1*	1*
Average power (mW)	8	50	1	6
Pulse energy (μJ)	80	50	10	6
Pulse width (ps)	2500		2000	
Power stability (8h)	±3%			
Beam profile	TEM ₀₀			
Beam full divergence (typ., mrad)	Horizontal @1/e ²	10		6
	Vertical @1/e ²	10		6
Polarization ratio	>100:1			
System Parameters				
Supply power voltage	100-240 VAC, 50/60 Hz			
Control interface	RS232, USB			
Power consumption (W)	≤20	≤45	≤20	≤45
Power dimensions (W×H×L, mm)	168×88×140			
Laser head dimensions (W×H×L, mm)	45×30×120			
Operation temperature (°C)	15-35			
Storage temperature (°C)	0-60			

- *Laser head features side laser outlet, please see mechanical drawings for more details.
- Built-in beam expander and collimator are available upon request, and divergence can be less than 2mrad.

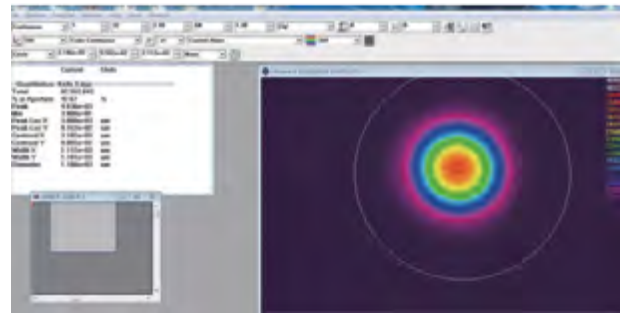
Ordering Information

Wavelength (nm)	Part Number	Repetition rate (kHz)	Pulse energy (μJ)
1319	MCL-1319-0.1-080	0.1	80
	MCL-1319-1-050	1	50
660	MCL-660-0.1-010	0.1	10
	MCL-660-1-006	1	6

Part Numbering Schema

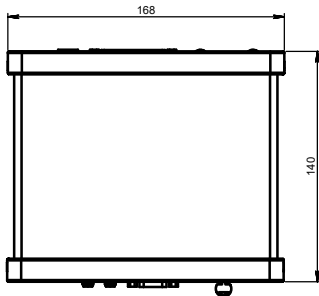
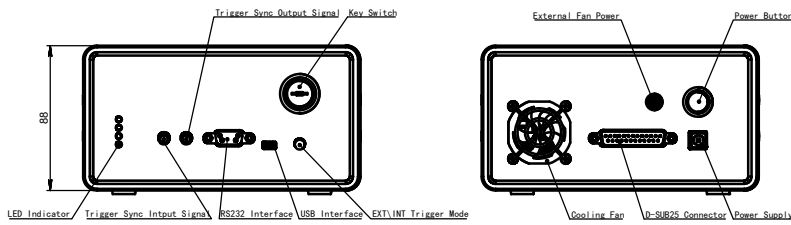


Typical Pulse

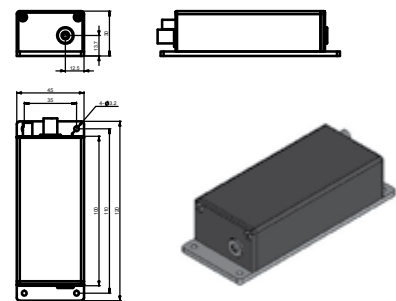


Beam Profile

Mechanical Drawings (mm)



Power Supply



Laser Head (side laser outlet)

