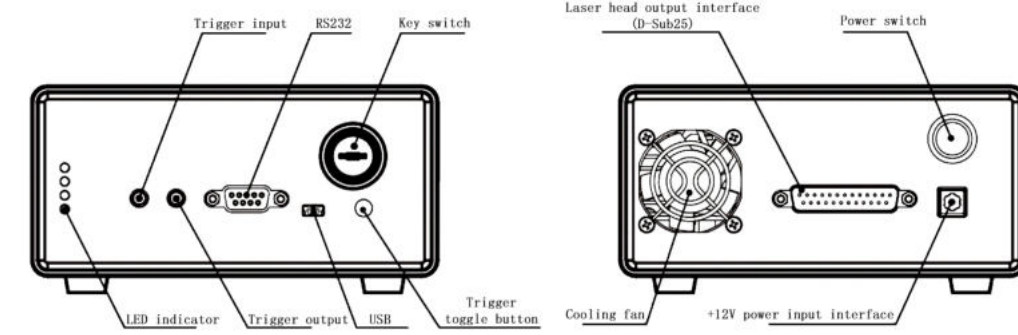


# 1064nm 550ps Microchip Laser System of MCG Series



## OUTLINE SIZE(mm)



Main view of Driven

Rear view of Driven

## DESCRIPTION

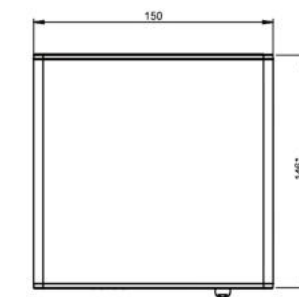
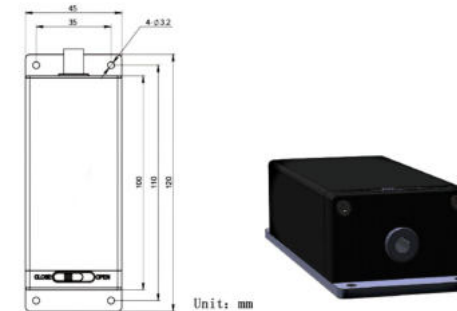
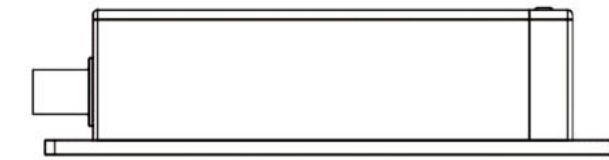
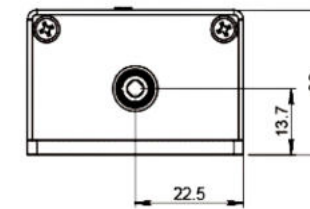
MCG series high repetition rate microchip laser series is a semiconductor-pumped passive Q-switched solid-state laser with stable energy, narrow pulse width, good beam quality, and single longitudinal mode operation. This series of laser adopts hermetically sealed design, small size, easy installation and integration, and is widely used in the laser micromachining and analysis instrument industry. Our company can provide users with isolators and power amplification solutions that match the wavelength.

## FEATURES

- Maximum repetition frequency up to 100KHz
- Pulse width up to 450ps
- Pulse energy up to 2.5μJ
- Single longitudinal mode
- Beam mode is TEM00

## APPLICATIONS

- Seed source
- Laser processing
- Analytical Instruments
- Biological photomolecule



Top view of Driven



\* Optical fiber pump for external pump source, power supply length: 200mm



## PARAMETERS

Model	CL1064-10KHz-2.5μJ-MCG006	CL1064-50KHz-2μJ-MCG007	CL1064-50KHz-5μJ-MCG008	CL1064-100KHz-1μJ-MCG009	CL1064-100KHz-3μJ-MCG010
Wavelength (nm)	1064	1064	1064	1064	1064
Repetition Frequency (kHz)	10	50	50	100	100
Average Power (mW)	25	100	250	100	300
Output Energy (uJ)	2.5	2	5	1	3
Pulse Width (ps)	550	550	550	550	550
Power Stability (8h)	±2%	±2%	±2%	±2%	±2%
Beam Mode	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>	TEM <sub>00</sub>
Full-Angle Divergence Angle Typ. (Mrad) Level @ 1/e <sup>2</sup>	<9	<16	<16	<20	<20
Vertical @ 1 / e <sup>2</sup>	<9	<16	<16	<20	<20
Polarization Characteristics	> 100:1	> 100:1	> 100:1	> 100:1	> 100:1
Power Input	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz
Modulation Input	TTL0-5V,SMA interface	TTL0-5V,SMA interface	TTL0-5V,SMA interface	TTL0-5V,SMA interface	TTL0-5V,SMA interface
Control Interface	RS232、USB	RS232、USB	RS232、USB	RS232、USB	RS232、USB
System Power Consumption (W)	< 15	< 35	< 35	< 40	< 40
Power Supply Size (W × H × L, mm)	150×76×146	150×76×146	150×76×146	150×76×146	150×76×146
Laser Head Size (W × H × L, mm)	45×30×120	45×30×120	45×30×120	45×30×120	45×30×120
Working Temperature (°C)	15-35	15-35	15-35	15-35	15-35
Storage Temperature (°C)	0-50	0-50	0-50	0-50	0-50

