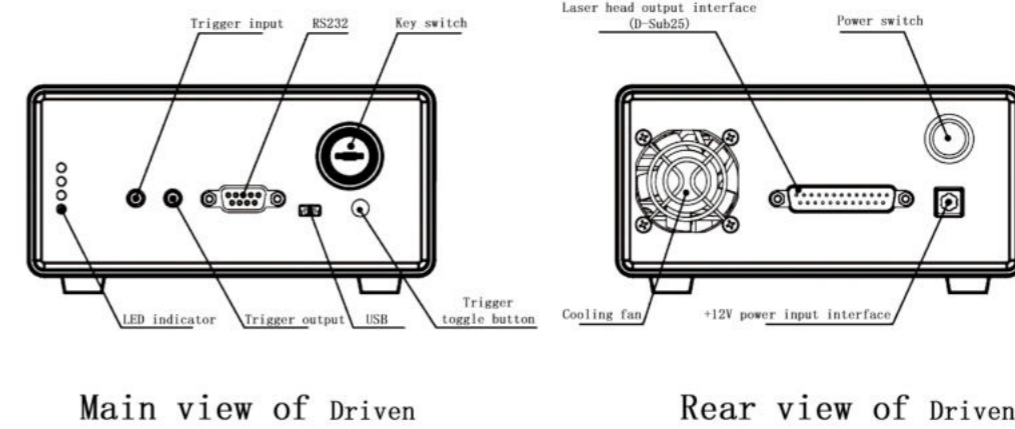


# 1064nm Microchip Laser System of MG Series



## OUTLINE SIZE(mm)



## DESCRIPTION

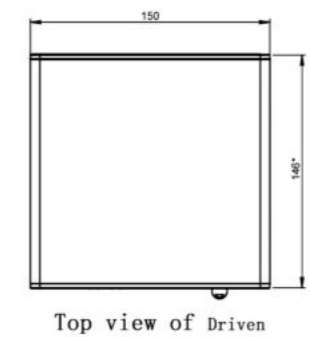
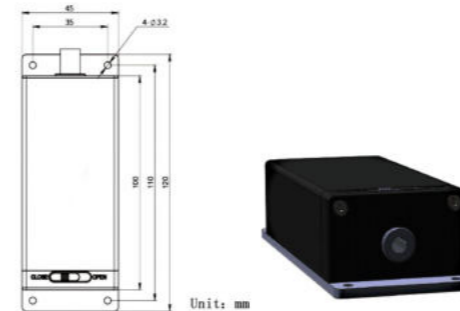
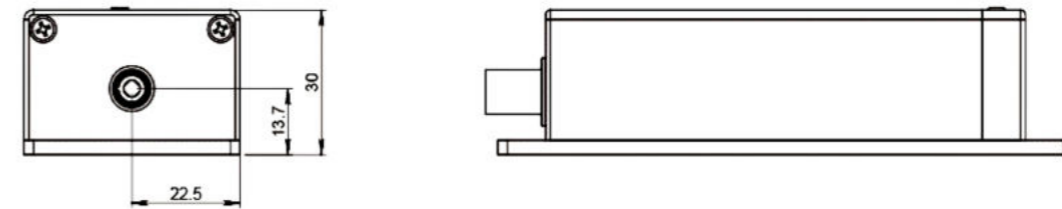
MG series high repetition rate microchip laser series is a semiconductor-pumped passive Q-switched solid-state laser with stable energy, narrow pulse width, good beam quality, and single longitudinal mode operation. This series of laser adopts hermetically sealed design, small size, easy installation 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 energy up to 2.5μJ
- Single longitudinal mode
- Beam mode is TEM00

## APPLICATIONS

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



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



## PARAMETERS

Model	CL1064-10KHz-2.5μJ-MG006	CL1064-50KHz-2μJ-MG007	CL1064-50KHz-5μJ-MG008	CL1064-100KHz-1μJ-MG009	CL1064-100KHz-3μJ-MG010	
Optical Parameter	Wavelength (nm)	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)	500	500	500	500	500
	Power Stability (8h)	±3%	±3%	±3%	±3%	±3%
	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	
System Parameter	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)	168×88×140/168×88×220*	168×88×140/168×88×220*	168×88×140/168×88×220*	168×88×140/168×88×220*	168×88×140/168×88×220*
	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

