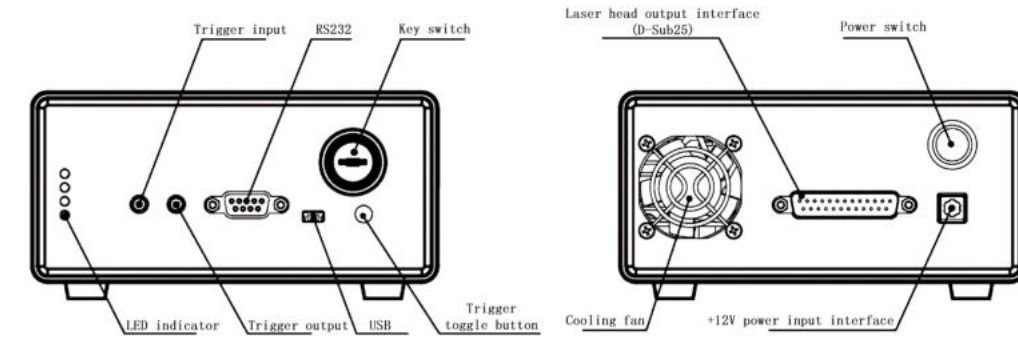


# 532nm 550ps Microchip Laser System of MCG Series



## OUTLINE SIZE(mm)

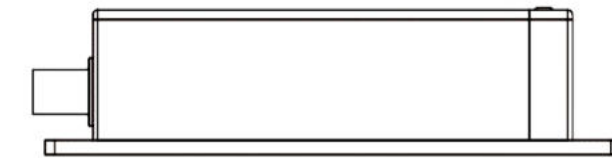
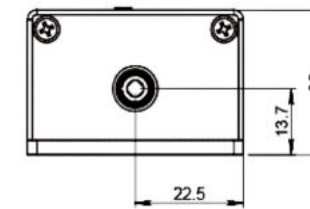


Main view of Driven

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.

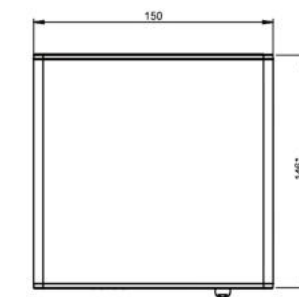
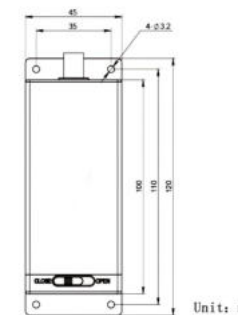


## FEATURES

- 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

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



Top view of Driven



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



## PARAMETERS

Model	CL532-10KHz-1μJ-MCG001	CL532-50KHz-0.8μJ-MCG002	CL532-50KHz-2μJ-MCG003	CL532-100KHz-0.5μJ-MCG004	CL532-100KHz-1.5μJ-MCG005
Wavelength (nm)	532	532	532	532	532
Repetition Frequency (kHz)	10	50	50	100	100
Average Powe (mW)	10	40	100	50	150
Output Energy (uJ)	1	0.8	2	0.5	1.5
Optical Parameter	Full-Angle Divergence Angle Typ. (Mrad) Level @ 1/e2	<6	<10	<10	<12
	Vertical @ 1 / e2	<6	<10	<10	<12
	Pulse Width (ps)			500	
	Power Stability (8h)			±3%	
	Beam Mode			TEM00	
	Polarization Characteristics			>100:1	
System Parameter	System Power Consumption (W)	<20	<35	<40	<45
	Power Input			100-240 VAC,50/60Hz	
	Modulation Input			TTL0-5V,SMA interface	
	Control Interface			RS232、USB	
	Power Supply Size (W × H × L, mm)			150×76×146	
	Laser Head Size (W × H × L, mm)			45×30×120	
	Working Temperature (°C)			15-35	
	Storage Temperature (°C)			0-60	

