

# 355nm Microchip Laser System of MC Series



## DESCRIPTION

MC series microchip laser products have very ideal narrow pulse width, but also can achieve high single pulse energy. The product is a passive Q-switched solid-state laser based on semiconductor pump. The laser pulse is pure and tailless, the single pulse energy is stable, and the beam quality is good. The integrated design of semiconductor pump module and laser crystal makes the compact laser head easy to install and integrate. The system supports internal and external triggering. This series of products include four wavelengths of 1064nm, 532nm, 355nm and 266nm. The full sealing module inside the laser head can be used by customers for secondary development and application. The superior product performance index makes its application range very wide, especially in laser measurement, which can meet many different kinds of measurement needs, and also has excellent performance in the application of laser seeds. We can also provide 1064nm and 532nm isolators.

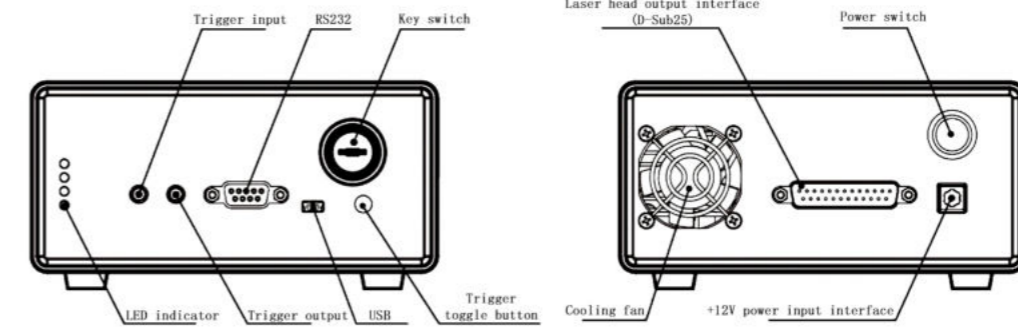
## FEATURES

- Pulse energy up to 80  $\mu$ J
- External pump source fiber pump pulse energy can reach 500 $\mu$ J
- Repetition frequency up to 10kHz
- Beam mode is TEM00
- Fully sealed design, high reliability

## APPLICATIONS

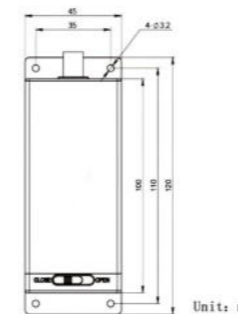
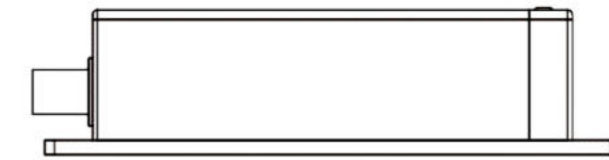
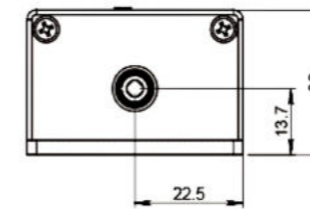
- Seed source
- Micromachining
- Laser ionization mass spectrometry
- Laser ultrasonic inspection
- Optical Parametric Oscillating Pump Source
- Biomedical Science
- Laser-induced fluorescence

## OUTLINE SIZE(mm)

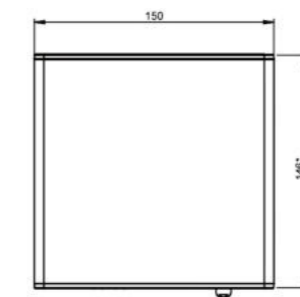


Main view of Driven

Rear view of Driven



Unit: mm



Top view of Driven



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



## PARAMETERS

Model	CL266-1KHz-12μJ-MC005	CL266-1KHz-8μJ-MC006	CL266-5KHz-7μJ-MC007	CL266-10KHz-3μJ-MC008	
Optical Parameter	Wavelength (nm)	266	266	266	266
	Repetition Frequency (kHz)	1*	1*	5*	10*
	Average Powe (mW)	12	8	35	30
	Output Energy (uJ)	12	8	7	3
	Pulse Width (ps)	550	600	600	600
	Power Stability (8h)	±3%	±3%	±3%	±3%
	Beam Mode	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>	< 4	< 4	< 4	< 4
	Vertical @ 1/e <sup>2</sup>	< 4	< 4	< 4	< 4
	Polarization Characteristics	> 100:1	> 100:1	> 100:1	> 100:1
System Parameters	System Power Consumption (W)	< 25	< 25	< 30	< 30
	Power Input	100-240 VAC,50/60Hz			
	Modulation Input	TTL0-5V,SMA interface			
	Control Interface	RS232、USB			
	Power Supply Size (W × H × L, mm)	168×88×140/168×88×220*			
	Laser Head Size (W × H × L, mm)	45×30×120			
	Working Temperature (°C)	15-35			
	Storage Temperature (°C)	0-60			

