

# 532nm 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.

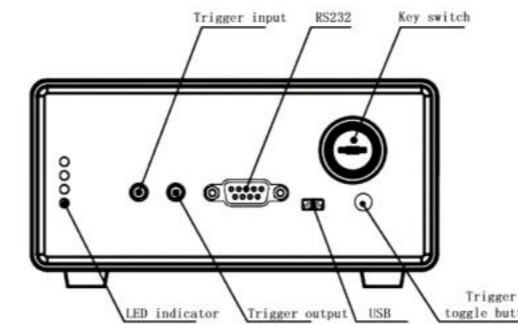
## FEATURES

- 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

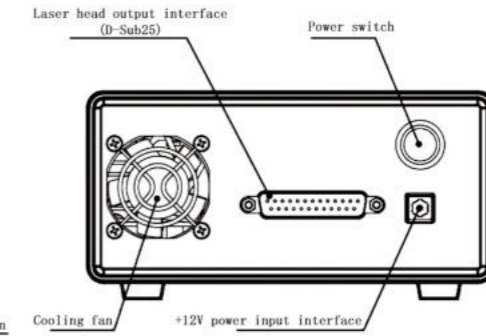
## APPLICATIONS

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

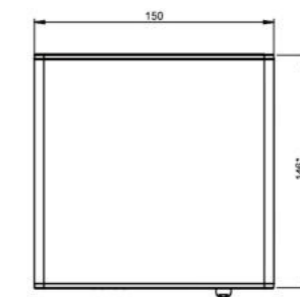
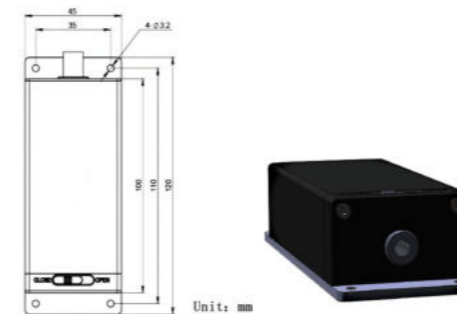
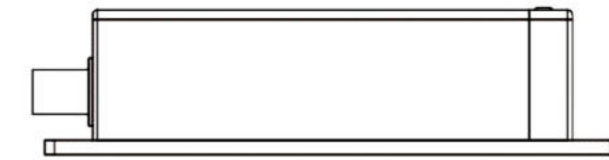
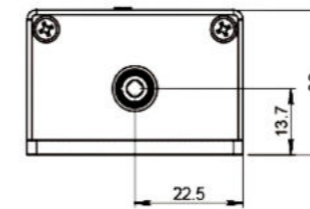
## OUTLINE SIZE(mm)



Main view of Driven



Rear view of Driven



Top view of Driven



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



## PARAMETERS

Model	CL532-100Hz-250μJ-MC014	CL532-500Hz-150μJ-MC015	CL532-1KHz-40μJ-MC016	CL532-5KHz-35μJ-MC017	
Optical Parameter	Wavelength (nm)	532	532	532	532
	Repetition Frequency (kHz)	0.1	0.5	1	5
	Average Powe (mW)	25	75	40	175
	Output Energy (uJ)	250	150	40	35
	Full-Angle Divergence Angle Typ. (Mrad) Level @ 1/e2	<6	<6	<6	<6
	Vertical @ 1 / e2	<6	<6	<6	<6
	Pulse Width (ps)	600	700	700	700
	Power Stability (8h)			±3%	
	Beam Mode			TEM00	
	Polarization Characteristics			> 100:1	
System Parameter	System Power Consumption (W)	<25	<25	<30	<35
	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	

