# 532nm 750ps Microchip Laser System of MCC Series





#### **DESCRIPTION**

MCC 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.

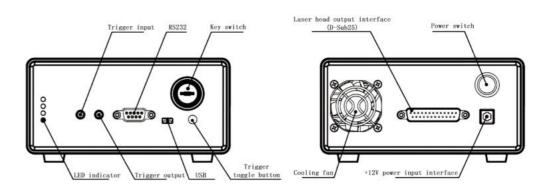
#### **FEATURES**

- Pulse width up to 700ps
- Pulse energy up to 80 μJ
- External pump source fiber pump pulse energy can reach 500µJ
- Repetition frequency up to 10kHz
- Beam mode is TEM00
- Fully sealed design, high reliability

#### **APPLICATIONS**

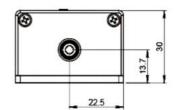
- Seed source
- Micromachining
- · Laser ionization mass spectrometry
- Laser ultrasonic inspection
- Optical Parametric Oscillating Pump Source
- · Biomedical Science
- Laser-induced fluorescence

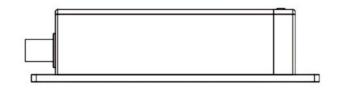
### **OUTLINE SIZE(mm)**



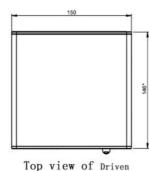
Main view of Driven

Rear view of Driven











\* Optical fiber pump for external pump source



## **PARAMETERS**

Model		CL532-100Hz-25	50µJ-MCC010 CL532-500Hz-150	μJ-MCC011 CL532-1KHz-40μ	յJ-MCC012 CL532-5KHz-35լ	ıJ-MCC013 CL532-10KHz-20µJ-MCC014
Optical Parameter	Wavelength (nm)	532	532	532	532	532
	Repetition Frequency (kHz)	0.1*	0.5*	1	5	10
	Average Powe (mW)	25	75	40	175	200
	Output Energy (uJ)	250	150	40	35	20
	Full-Angle Divergence Angle Typ. (Mrad) Level @ 1/e2	2 < 3	<3	<6	<6	<6
	Vertical @ 1 / e2	<3	<3	<6	<6	<6
	Pulse Width (ps)	700				
	Power Stability (8h)	±3%				
	Beam Mode	TEM00				
	Polarization Characteristics	>100:1				
System Paramete	System Power Consumption (W)	<15	<20	<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)	150×76×146/150×76×200*				
	Laser Head Size (W × H × L, mm)	45×30×120				
	Working Temperature (℃)	15-35				
	Storage Temperature (℃)	0-60				

