

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.

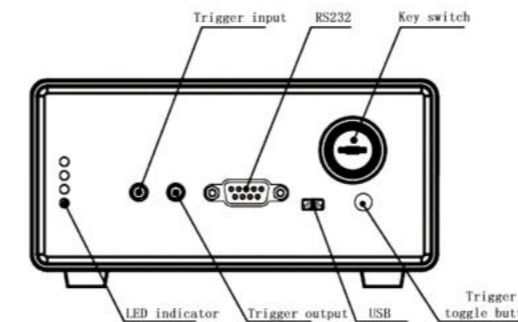
FEATURES

- 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

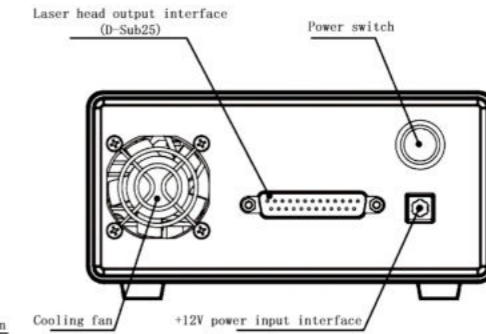
APPLICATIONS

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

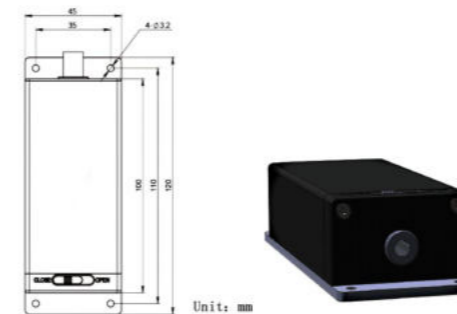
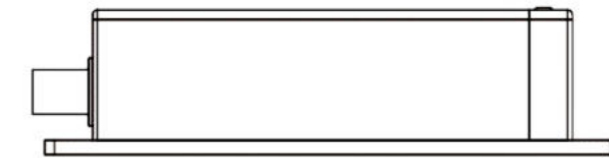
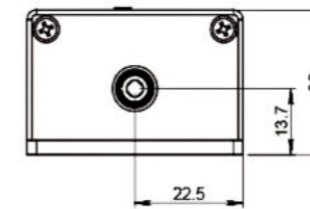
OUTLINE SIZE(mm)



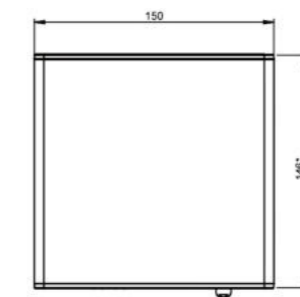
Main view of Driven



Rear view of Driven



Unit: mm



Top view of Driven



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



PARAMETERS

Model	CL532-100Hz-250μJ-MCC010	CL532-500Hz-150μJ-MCC011	CL532-1KHz-40μJ-MCC012	CL532-5KHz-35μJ-MCC013	CL532-10KHz-20μJ-MCC014	
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	
Optical Parameter	Full-Angle Divergence Angle Typ. (Mrad) Level @ 1/e2	<3	<6	<6	<6	
	Vertical @ 1 / e2	<3	<6	<6	<6	
	Pulse Width (ps)			700		
	Power Stability (8h)			±3%		
	Beam Mode			TEM00		
	Polarization Characteristics			>100:1		
System Parameter	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 (°C)			15-35		
	Storage Temperature (°C)			0-60		

