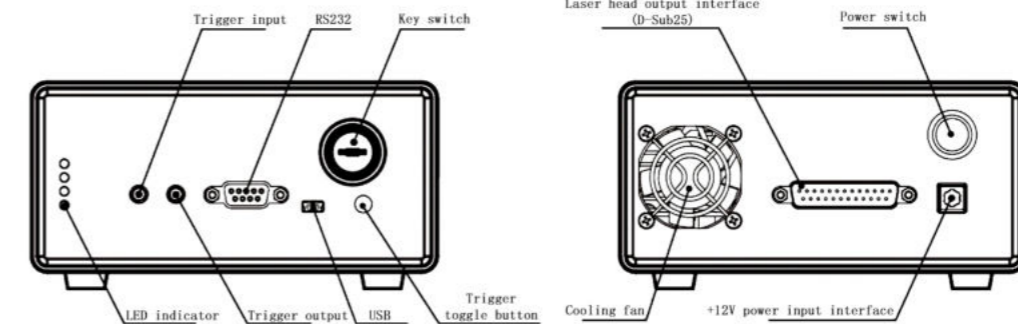


# 532nm Microchip Laser System of MD Series

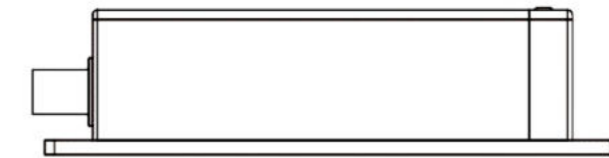
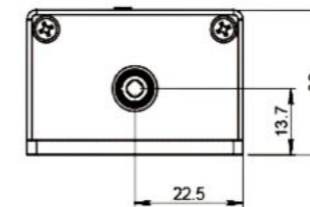


## OUTLINE SIZE(mm)



Main view of Driven

Rear view of Driven



## DESCRIPTION

MD series microchip laser is a passively 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. This series of lasers have great advantages in seed light, laser micromachining, laser measurement and other applications. We also provide 1064nm and 532nm isolators.

## FEATURES

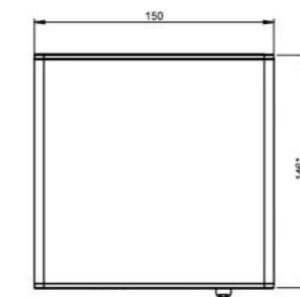
- Pulse energy up to 150  $\mu$ J
- External pump source fiber pump pulse energy can reach 360 $\mu$ J
- Maximum repetition frequency up to 1kHz
- Beam mode is TEM00
- Fully sealed design, high reliability

## APPLICATIONS

- Seed source
- Laser micromachining
- Nonlinear optical measurement
- Laser-induced fluorescence
- Laser ionization mass spectrometry
- Fluorescence lifetime measurement



Unit: mm



Top view of Driven



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



## PARAMETERS

Model	CL532-100Hz-75μJ-MD005	CL532-1KHz-25μJ-MD006	
Optical Parameter	Wavelength (nm)	532	532
	Repetition Frequency (kHz)	0.1	1
	Average Powe (mW)	7.5	25
	Output Energy (uJ)	75	25
	Full-Angle Divergence Angle Typ. (Mrad) Level @ 1/e2	<3	<6
	Vertical @ 1 / e2	<3	<6
	Pulse Width (ps)		300
	Power Stability (8h)		±3%
	Beam Mode		TEM00
	Polarization Characteristics		>100:1
System Parameter	System Power Consumption (W)	<20	<25
	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	

