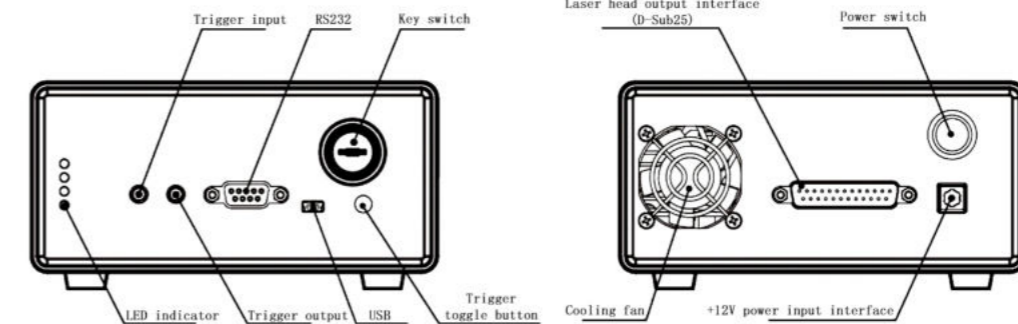


266nm 350ps Microchip Laser System of MCD Series

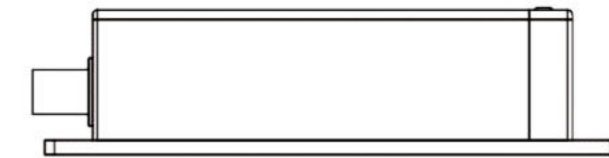
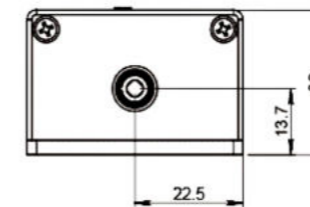


OUTLINE SIZE(mm)



Mainview of Driven

Rear view of Driven



DESCRIPTION

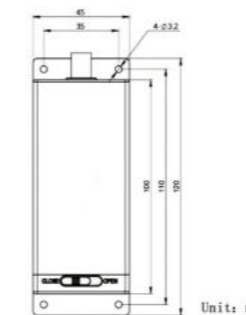
MCD series microchip laser is a passively Q-switched solid-state laser based on semiconductor pump. The laser pulse is pure and tailless, the single pulse energy is stable, and the beam quality is good. The integrated design of semiconductor pump module and laser crystal makes the compact laser head 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

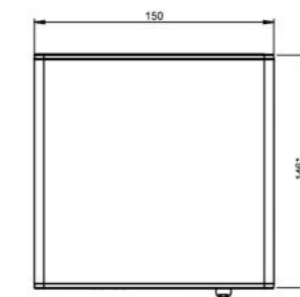
- Pulse width up to 300ps
- Pulse energy up to 150 μJ
- External pump source fiber pump pulse energy can reach 360μJ
- Maximum repetition frequency up to 1kHz
- Beam mode is TEM00
- Fully sealed design, high reliability

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	CL266-100Hz-10μJ-MCD001	CL266-100Hz-30μJ-MCD002	CL266-500Hz-7μJ-MCD003	CL266-1KHz-5μJ-MCD004	
Optical parameter	Wavelength (nm)	266	266	266	266
	Repetition Frequency (kHz)	0.1	0.1*	0.5	1
	Average Powe (mW)	1	3	7	5
	Output Energy (uJ)	10	30	7	5
	Pulse Width (ns)	300	300	300	300
	Power Stability (8h)	±3%	±3%	±3%	±3%
	Beam Mode	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀
	Full-Angle Divergence Angle Typ. (Mrad) Level @ 1/e ²	<2	<2	<3	<3
	Vertical @ 1/e ²	<2	<2	<3	<3
	Polarization Characteristics	>100:1	>100:1	>100:1	>100:1
System parameters	Power Input	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz	100-240 VAC,50/60Hz
	Modulation Input	TTL0-5V,SMA interface	TTL0-5V,SMA interface	TTL0-5V,SMA interface	TTL0-5V,SMA interface
	Control Interface	RS232、USB	RS232、USB	RS232、USB	RS232、USB
	System Power Consumption (W)	<20	<15	<20	<25
	Power Supply Size (W × H × L, mm)	150×76×146/150×76×200*	150×76×146/150×76×200*	150×76×146/150×76×200*	150×76×146/150×76×200*
	Laser Head Size (W × H × L, mm)	45×30×120	45×30×120	45×30×120	45×30×120
	Working Temperature (°C)	15-35	15-35	15-35	15-35
	Storage Temperature (°C)	0-60	0-60	0-60	0-60

