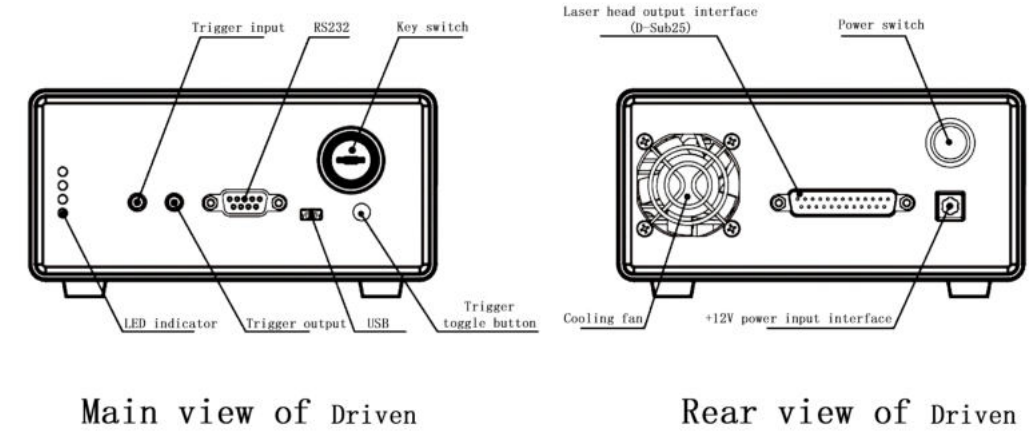


1064nm 350ps Microchip Laser System of MCH Series



OUTLINE SIZE(mm)



DESCRIPTION

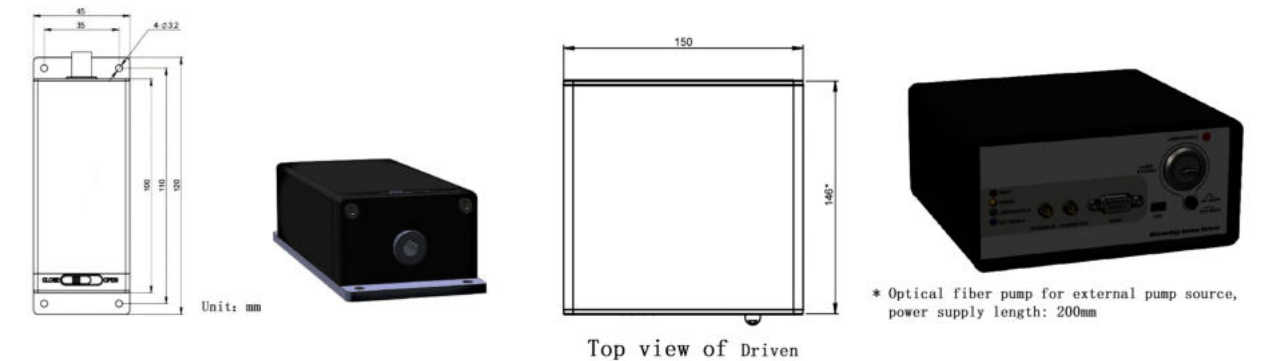
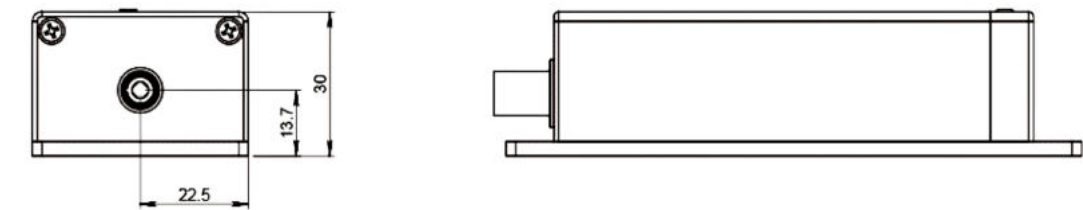
MCH series high repetition rate microchip laser series can achieve high repetition rate while the pulse width is less than 300ps. The product is a passively Q-switched solid-state laser based on semiconductor pump, with stable energy, good beam quality and single longitudinal mode operation. The laser is designed with full seal, small size, convenient for user installation and integration. The system supports internal and external triggering and can be used for secondary development.

FEATURES

- Pulse width up to 280ps
- Pulse energy up to 32μJ
- Maximum repetition frequency up to 20kHz
- Beam mode is TEM00

APPLICATIONS

- Seed source
- Micromachining
- Ultrasound imaging
- analytical chemistry
- Time-resolved Raman spectroscopy
- Biophotonics



PARAMETERS

Model	CL1064-1KHz-32μJ-MCH010	CL1064-5KHz-15μJ-MCH011	CL1064-10KHz-8μJ-MCH012	CL1064-20KHz-5μJ-MCH013	
Optical Parameter	Wavelength (nm)	1064	1064	1064	1064
	Repetition Frequency (kHz)	1	5	10	20*
	Average Powe (mW)	32	75	80	100
	Output Energy (uJ)	32	15	8	5
	Pulse Width (ps)	350	300	300	300
	Power Stability (8h)	±2%	±2%	±2%	±2%
	Beam Mode	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀
	Full-Angle Divergence Angle Typ. (Mrad) Level @ 1/e2	< 10	< 10	< 10	< 20
	Vertical @ 1 / e2	< 10	< 10	< 10	< 20
	Polarization Characteristics	> 100:1	> 100:1	> 100:1	> 100:1
System Parameter	Power Input	100-240 VAC,50/60Hz			
	Modulation Input	TTL0-5V,SMA interface			
	Control Interface	RS232、USB			
	System Power Consumption (W)	< 15	< 35	< 40	< 50
	Power Supply Size (W × H × L, mm)	150×76×146	150×76×146	150×76×146	150×76×146
	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)	0-50	0-50	0-50	0-50

