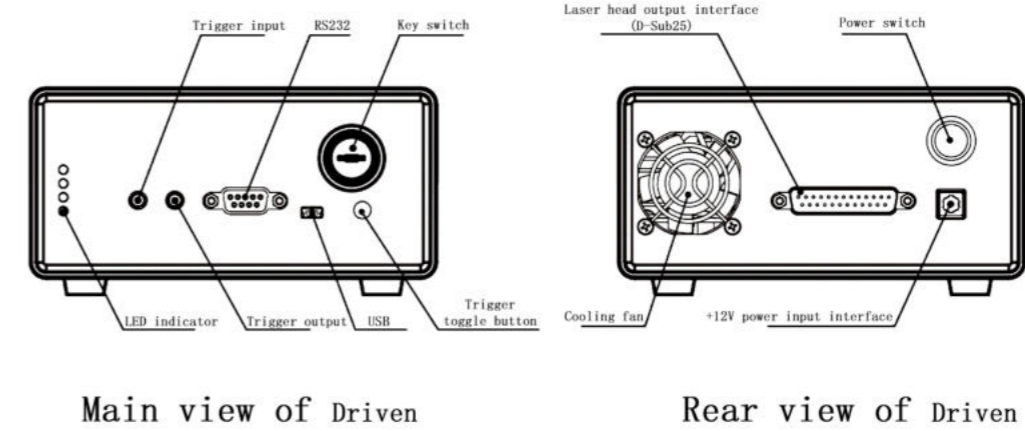


532nm 350ps Microchip Laser System of MCH Series



OUTLINE SIZE(mm)



DESCRIPTION

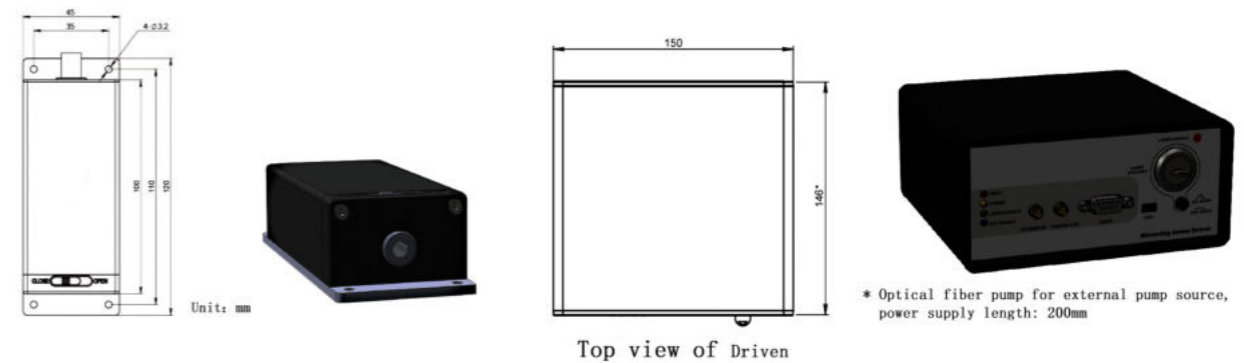
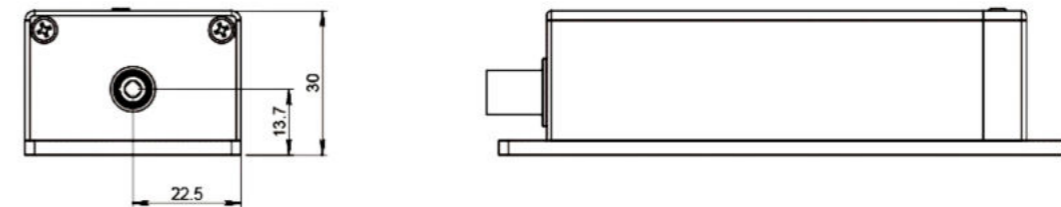
MCH series high repetition rate microchip laser series can achieve high repetition rate while the pulse width is less than 300ps. The product is a passively Q-switched solid-state laser based on semiconductor pump, with stable energy, good beam quality and single longitudinal mode operation. The laser 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

- Laser micromachining
- Seed source
- Ultrasound imaging
- Analytical chemistry
- Time-resolved Raman spectroscopy
- Biophotonics



PARAMETERS

Model	CL532-1KHz-16μJ-MCH006	CL532-5KHz-8μJ-MCH007	CL532-10KHz-5μJ-MCH008	CL532-20KHz-2.5μJ-MCH009	
Optical Parameter	Wavelength (nm)	532	532	532	532
	Repetition Frequency (kHz)	1	5	10	20*
	Average Powe (mW)	16	40	30	50
	Output Energy (uJ)	16	8	5	2.5
	Pulse Width (ps)	300	280	280	280
	Power Stability (8h)	±2%	±3%	±3%	±3%
	Full-Angle Divergence Angle Typ. (Mrad) Level @ 1/e2	<6	<6	<6	<12
	Beam Mode	TEM00	TEM00	TEM00	TEM00
	Vertical @ 1 / e2	<6	<6	<6	<12
	Polarization Characteristics			>100:1	
System Parameter	System Power Consumption (W)	<20	<40	<45	<50
	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			
	Laser Head Size (W × H × L, mm)	45×30×120			
	Working Temperature (°C)	15-35			
	Storage Temperature (°C)	0-50			

