355nm 350ps Microchip Laser System of MCH Series

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.

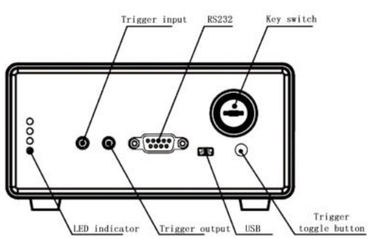
FEATURES

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

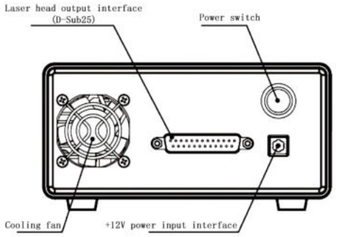
APPLICATIONS

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

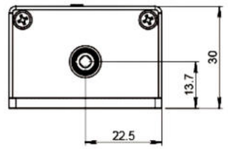
OUTLINE SIZE(mm)

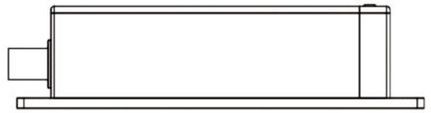


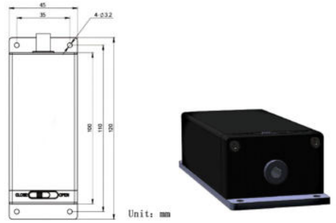
Main view of Driven

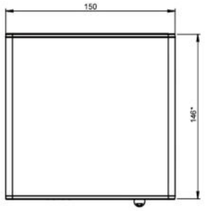


Rear view of Driven









Top view of Driven

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

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PARAMETERS

Model		CL355-1KHz-8μJ-MCH003	CL355-5KHz-3μJ-MCH004	CL355-10KHz-2μJ-MCH005
Optical Parameter	Wavelength (nm)	355	355	355
	Repetition Frequency (kHz)	1	5	10
	Average Powe (mW)	8	15	20
	Output Energy (uJ)	8	3	2
	Pulse Width (ps)	300	280	280
	Power Stability (8h)	±3%	±3%	±3%
	Beam Mode	TEM_{00}	TEM_{00}	TEM_{00}
	Full-Angle Divergence Angle Typ. (Mrad) Level @ 1/e2	＜4	＜4	＜5
	Vertical @ 1 / e2	＜4	＜4	＜5
	Polarization Characteristics	＞100:1	＞100:1	＞100:1
System Parameter	Power Input	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
	Control Interface	RS232、USB	RS232、USB	RS232、USB
	System Power Consumption (W)	＜25	＜35	＜40
	Power Supply Size (W × H × L, mm)	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
	Working Temperature (℃)	15-35	15-35	15-35
	Storage Temperature (℃)	0-50	0-50	0-50