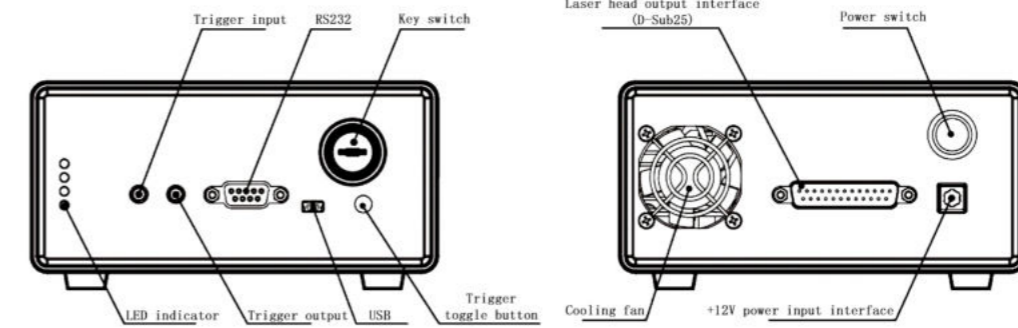


532nm Microchip Laser System of MA Series

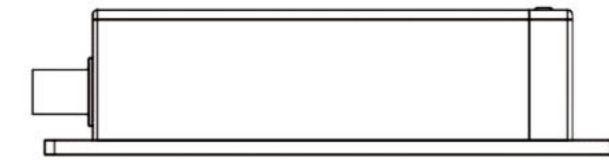
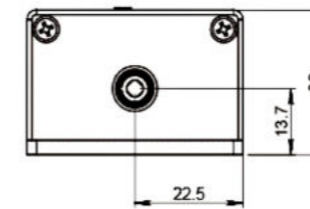


OUTLINE SIZE(mm)



Mainview of Driven

Rear view of Driven



DESCRIPTION

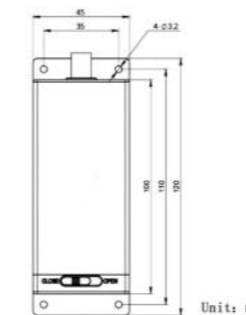
MA series microchip laser is a passively Q-switched solid-state laser based on semiconductor pump. The laser pulse is pure without tail, the single pulse energy is stable, and the beam quality is good. The integrated design of semiconductor pump module and laser crystal makes the compact laser head easy 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.

FEATURES

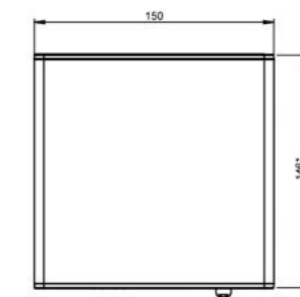
- Pulse energy up to 200 μ J
- External pump source fiber pump pulse energy can reach 1.2mJ
- Repetition frequency up to 20kHz
- Beam mode is TEM00
- Fully sealed design, high reliability

APPLICATIONS

- Lidar
- Laser Ranging
- Atmospheric monitoring
- Laser ultrasonic inspection
- Optical metrology
- Laser-induced fluorescence



Unit: mm



Top view of Driven



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



PARAMETERS

Model	CL532-100Hz-50μJ-MA012	CL532-1KHz-30μJ-MA013	CL532-2.5KHz-30μJ-MA014	CL532-1KHz-100μJ-MA015	CL532-2.5KHz-100μJ-MA016	CL532-5KHz-20μJ-MA017	CL532-10KHz-15μJ-MA018	CL532-20KHz-15μJ-MA019
Wavelength (nm)	532	532	532	532	532	532	532	532
Repetition Frequency (kHz)	0.1	1	2.5	1	2.5	5	10	20
Average Power (mW)	5	30	75	100	250	100	150	300
Output Energy (uJ)	50	30	30	100	100	20	15	15
Pulse Width (ns)	1.8	1.8	1.8	2	2	1.2	1.2	1.2
Full-Angle Divergence Angle Typ. (Mrad) Level @ 1/e2	<3	<4	<4	<6	<6	<6	<6	<6
Vertical @ 1/e2	<3	<4	<4	<6	<6	<6	<6	<6
Power Stability (8h)	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Beam Mode	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀	TEM ₀₀
Polarization Characteristics	>100:1	>100:1	>100:1	>100:1	>100:1	>100:1	>100:1	>100:1
System Power Consumption (W)	<10	<15	<25	<20	<25	<25	<30	<35
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							

