266nm Microchip Laser System of MA Series

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.

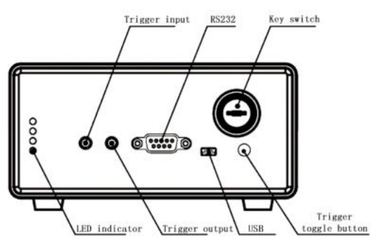
FEATURES

- Pulse energy up to 200 μJ
- 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

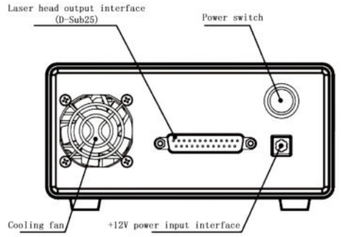
APPLICATIONS

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

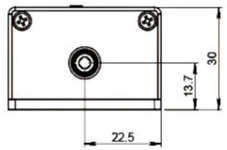
OUTLINE SIZE(mm)

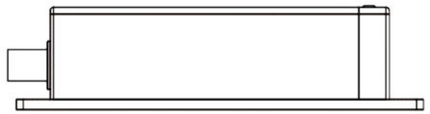


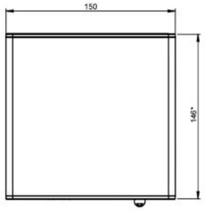
Main view of Driven



Rear view of Driven







Top view of Driven

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

PARAMETERS

Model		CL266-100Hz-15μJ-MA001	CL266-1KHz-12μJ-MA002	CL266-5KHz-3μJ-MA003	CL266-10KHz-1.5μJ-MA004	CL266-20KHz-1.5μJ-MA005
Optical parameter	Wavelength (nm)	266	266	266	266	266
	Repetition Frequency (kHz)	0.1*	1*	5*	10*	20*
	Average Powe (mW)	1.5	12	15	15	30
	Output Energy (uJ)	15	12	3	1.5	1.5
	Pulse Width (ps)	1500	1500	1500	1000	1000
	Power Stability (8h)	±3%	±3%	±3%	±3%	±3%
	Beam Mode	TEM_{00}	TEM_{00}	TEM_{00}	TEM_{00}	TEM_{00}
	Full-Angle Divergence Angle Typ. (Mrad) Level @ 1/e2	＜2	＜2	＜4	＜4	＜4
	Vertical @ 1/e2	＜2	＜2	＜4	＜4	＜4
	Polarization Characteristics	＞100:1	＞100:1	＞100:1	＞100:1	＞100:1
System parameters	System Power Consumption (W)	＜15	＜20	＜25	＜30	＜35
	Power Input	100-240 VAC,56/60Hz				
	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 (℃)	15-35				
	Storage Temperature (℃)	0-60