

1030nm Microchip Laser System of MCJ Series



DESCRIPTION

MCJ 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 two wavelengths of 1030nm and 515nm. The fully sealed module inside the laser head can be used by customers for secondary development and application.

FEATURES

- Pulse width up to 1ns
- Pulse energy up to 100μJ
- Repetition frequency up to 2kHz
- Beam mode is TEM00

APPLICATIONS

- Material micromachining
- Spectrum detection
- Lidar
- Pump source
- Biomedical Science

PARAMETERS

Model	CL1030-100Hz-100μJ-MCJ004	CL1030-1KHz-100μJ-MCJ005	CL1030-2KHz-100μJ-MCJ006	
Optical Parameter	Wavelength (nm)	1030	1030	1030
	Repetition Frequency (kHz)	0.1	1	2
	Average Power (mW)	10	100	200
	Output Energy (uJ)	100	100	100
	Pulse Width (ns)	1	1	1
	Power Stability (8h)	±3%	±3%	±3%
	Beam Mode	TEM00	TEM00	TEM00
	Full-Angle Divergence Angle Typ. (Mrad) Level @ 1/e2	<7	<7	<9
	Vertical @ 1 / e2	<7	<7	<9
	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)	<15	<15	<15
	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 (°C)	15-35	15-35	15-35
Storage Temperature (°C)	0-60	0-60	0-60	

OUTLINE SIZE(mm)

