

515nm 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	CL515-100Hz-40μJ-MCJ001	CL515-1KHz-40μJ-MCJ002	CL1515-2KHz-40μJ-MCJ003
Wavelength (nm)	515	515	515
Repetition Frequency (kHz)	0.1	1	2
Average Power (mW)	4	40	80
Output Energy (uJ)	40	40	40
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	<4	<4	<5
Vertical @ 1 / e2	<4	<4	<5
Polarization Characteristics	>100:1		
Power Input	100-240 VAC,50/60Hz		
Modulation Input	TTL0-5V,SMA interface		
Control Interface	RS232、USB		
System Power Consumption (W)	<15		
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)	0-60		

OUTLINE SIZE(mm)

