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MCH Series 300ps SLM Microchip Laser

Key Features

- Pulse width down to 300ps
- High energy stability
- Repetition rate up to 100kHz
- Spatial mode TEM_{00}
- Polarization-stable

Applications

Seed laser
Micromachining
Raman spectroscopy
Laser ranging
Laser-induced fluorescence (LIF)
Laser ultrasonic imaging
Bio-photonics
Photolithography

Technical Specifications

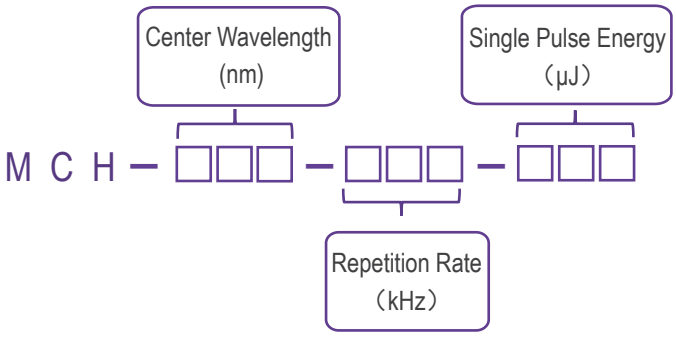
Optical Parameters							
Wavelength（nm）		1064			532		
Repetition rate (kHz)		20	50	100	20	50	100
Average power (mW)		60	100	100	30	50	30
Pulse energy (μJ)		3	2	1	1.5	1	0.3
Pulse width (ps)		350		500	300		450
Power stabilty (8h)		±3%					
Beam profile		TEM_{00}					
Beam full divergence (typ., mrad)	Horizontal @1/e²	20		30	16		25
	Vertical @1/e²	20		30	16		25
Polarization ratio		>100:1					
System Parameters							
Supply power voltage		100-240 VAC,50/60 Hz					
Control interface		RS232, USB					
Power consumption (W)		≤35	≤40	≤40	≤35	≤40	≤40
Power dimensions (W×H×L,mm)		168×88×140					
Laser head dimensions (W×H×L,mm)		45×33×120					
Operation temperature (℃)		15-35					
Storage temperature (℃)		0-60					

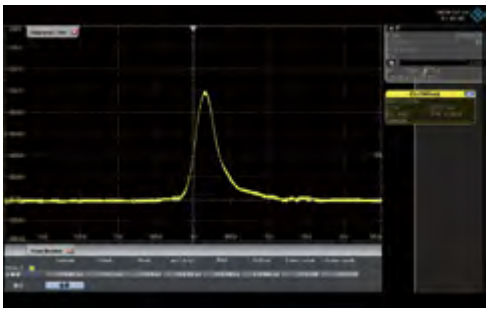
1. Wavelengths of 355nm and 266nm are available upon request.
2. Other repetition rates can be customized.

Order Information

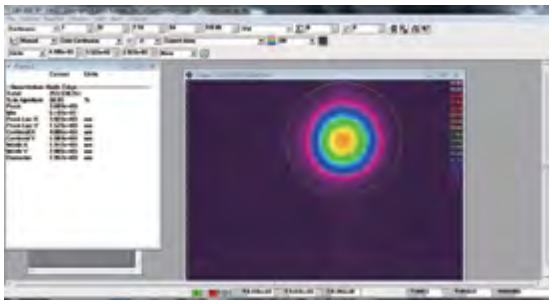
Wavelength（nm）	Part Number	Repetition rate (kHz)	Pulse energy (μJ)
1064	MCH-1064-20-003	20	3
	MCH-1064-50-002	50	2
	MCH-1064-100-001	100	1
532	MCH-532-20-1.5	20	1.5
	MCH-532-50-001	50	1
	MCH-532-100-0.3	100	0.3

Part Numbering Schema



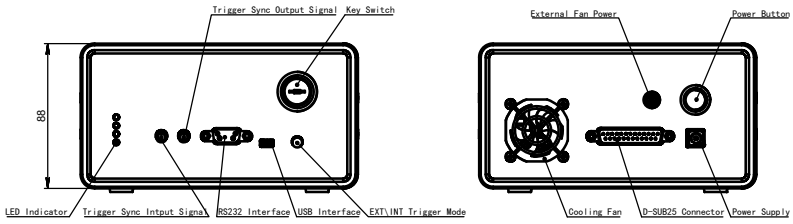


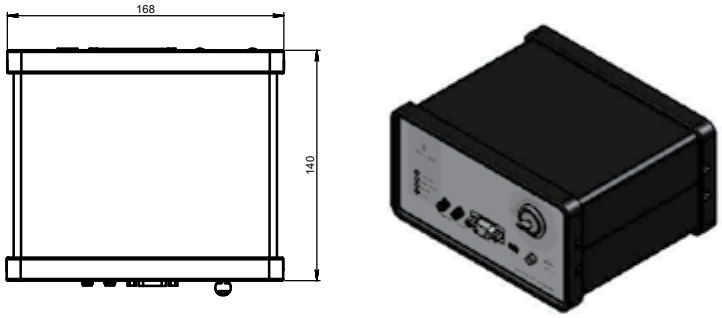
Typical Pluse



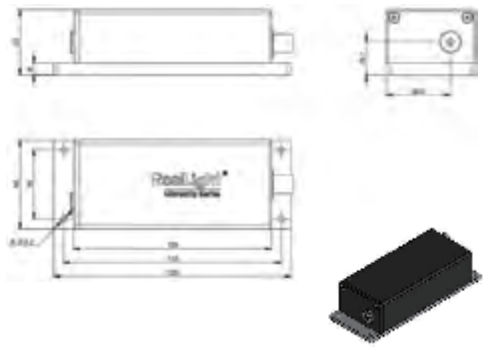
Beam Profile

Mechanical Drawings (in mm)





Power Supply



Laser Head