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MCI Series
2.5ns Microchip Laser

Key Features

- Compact design, excellent stability
- Polarization-stable
- Repetition rate up to 5kHz
- Spatial mode TEM_{00}

Applications

Laser-induced fluorescence (LIF)

Laser-based ultrasound detection

Laser ranging

Raman spectroscopy

Technical Specifications

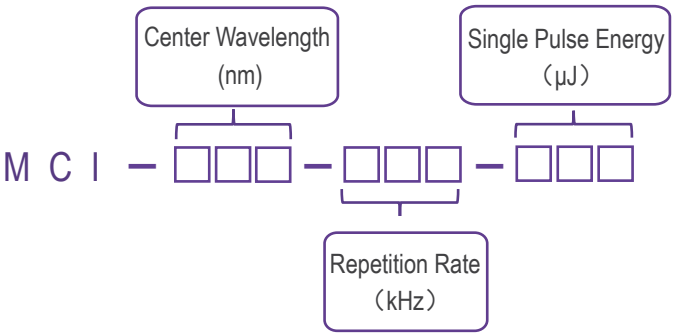
Optical Parameters							
Wavelength (nm)		946		473		237	
Repetition rate (kHz)		1	5	1	5	2*	
Average power (mW)		20	75	5	20	2	
Pulse energy (μJ)		20	15	5	4	1	
Pulse width (ps)		2500		2000		1500	
Power stabilty (8h)		±3%					
Beam profile		TEM_{00}					
Beam full divergence (typ., mrad)	Horizontal @1/e²	9	10	7	8	6	
	Vertical @1/e²	9	10	7	8	6	
Polarization ratio		>100:1					
System Parameters							
Supply power voltage		100-240 VAC,50/60 Hz					
Control interface		RS232、USB					
Power consumption (W)		≤15	≤30	≤15	≤30	≤25	
Power dimensions (W×H×L,mm)		168×88×140					
Laser head dimensions (W×H×L,mm)		45×30×120					
Operation temperature (℃)		15-35					
Storage temperature (℃)		0-60					

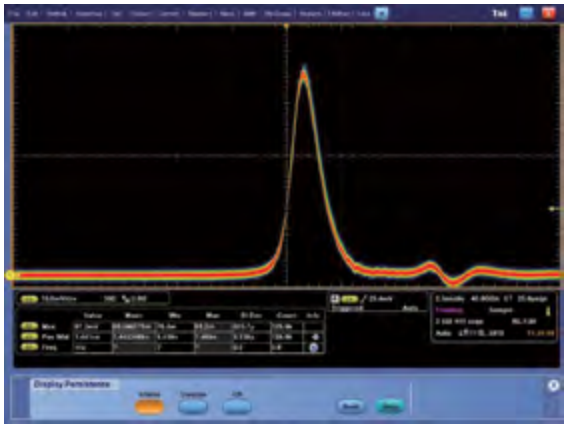
1. *Laser head features side laser outlet, please see mechanical drawings for more details.
2. Built-in beam expander and collimator are available upon request, and divergence can be less than 2mrad.

Order Information

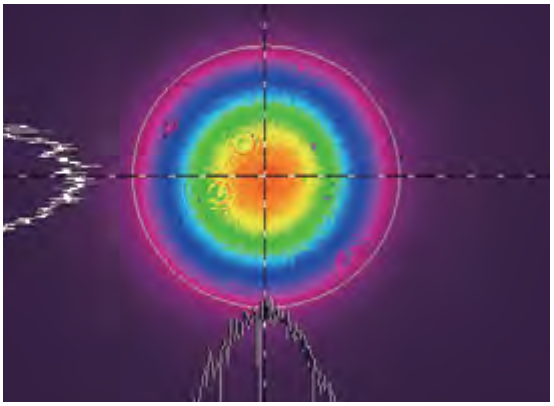
Wavelength (nm)	Part Number	Repetition rate (kHz)	Pulse energy (μJ)
946	MCI-946-1-020	1	20
	MCI-946-5-015	5	15
473	MCI-473-1-005	1	5
	MCI-473-5-004	5	4
237	MCI-237-2-001	2	1

Part Numbering Schema



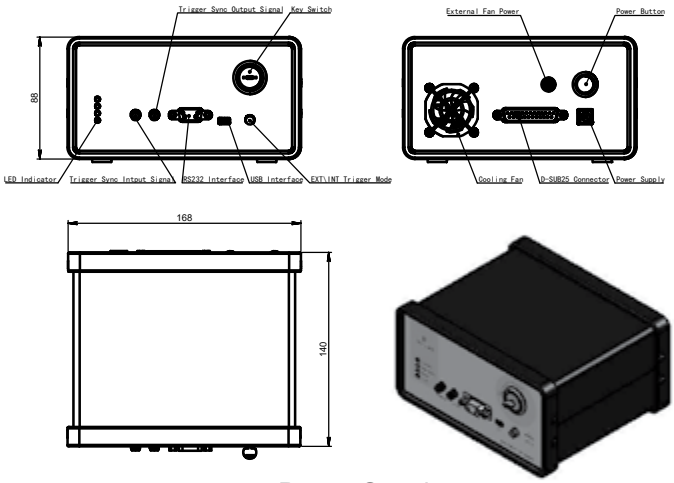


Typical Pluse

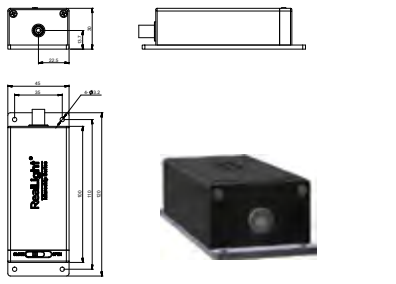


Beam Profile

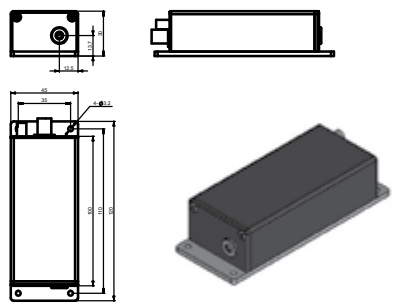
Mechanical Drawings (in mm)



Power Supply



Laser Head (middle laser outlet)



Laser Head (side laser outlet)