

MCG Series 550ps High-repetition-rate Microchip Lasers



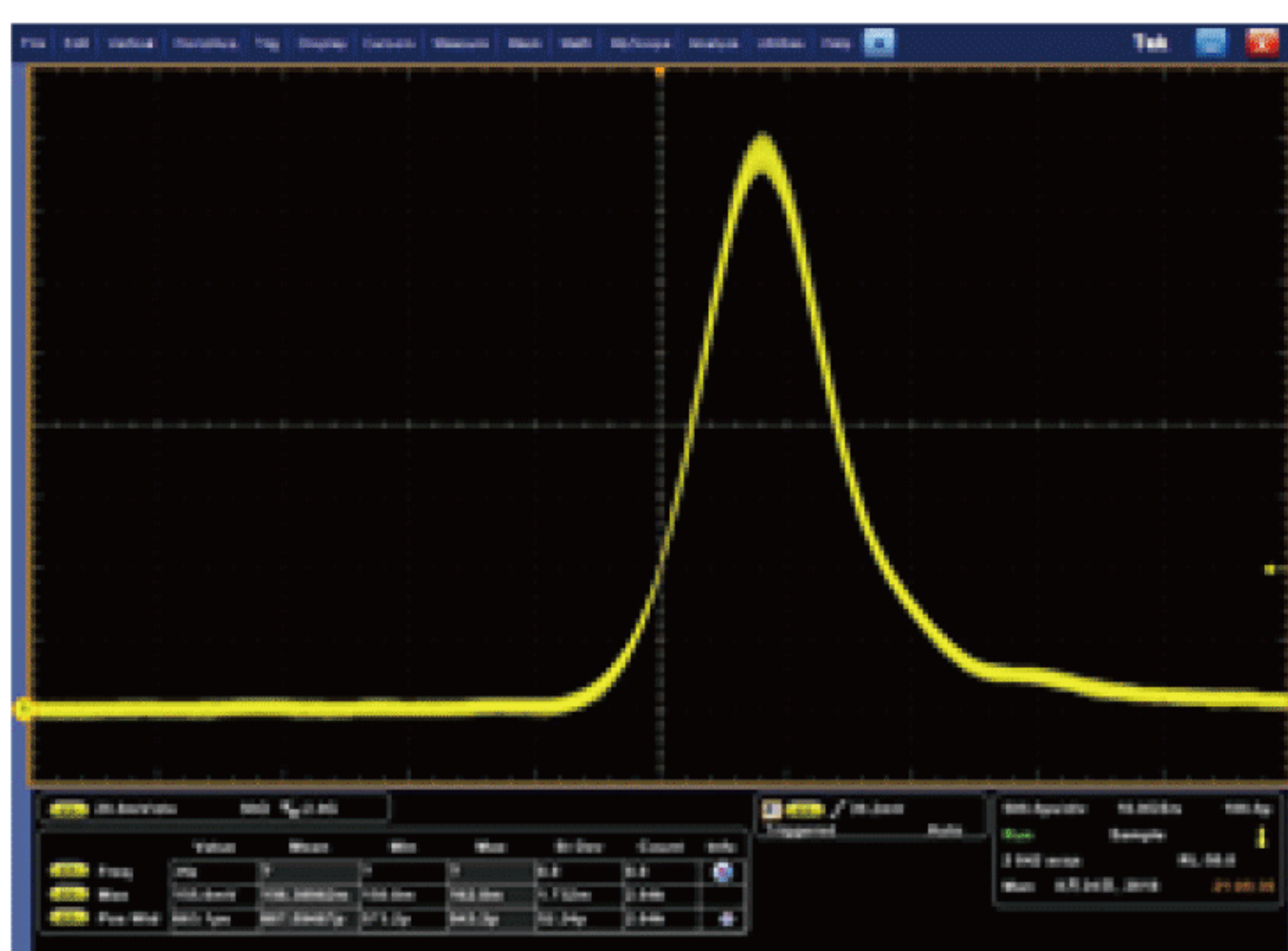
Key Features

- ◆ Repetition rate up to 100kHz
- ◆ Pulse width down to 500ps
- ◆ Pulse energy up to 2.5μJ
- ◆ Single longitudinal mode
- ◆ Excellent beam quality

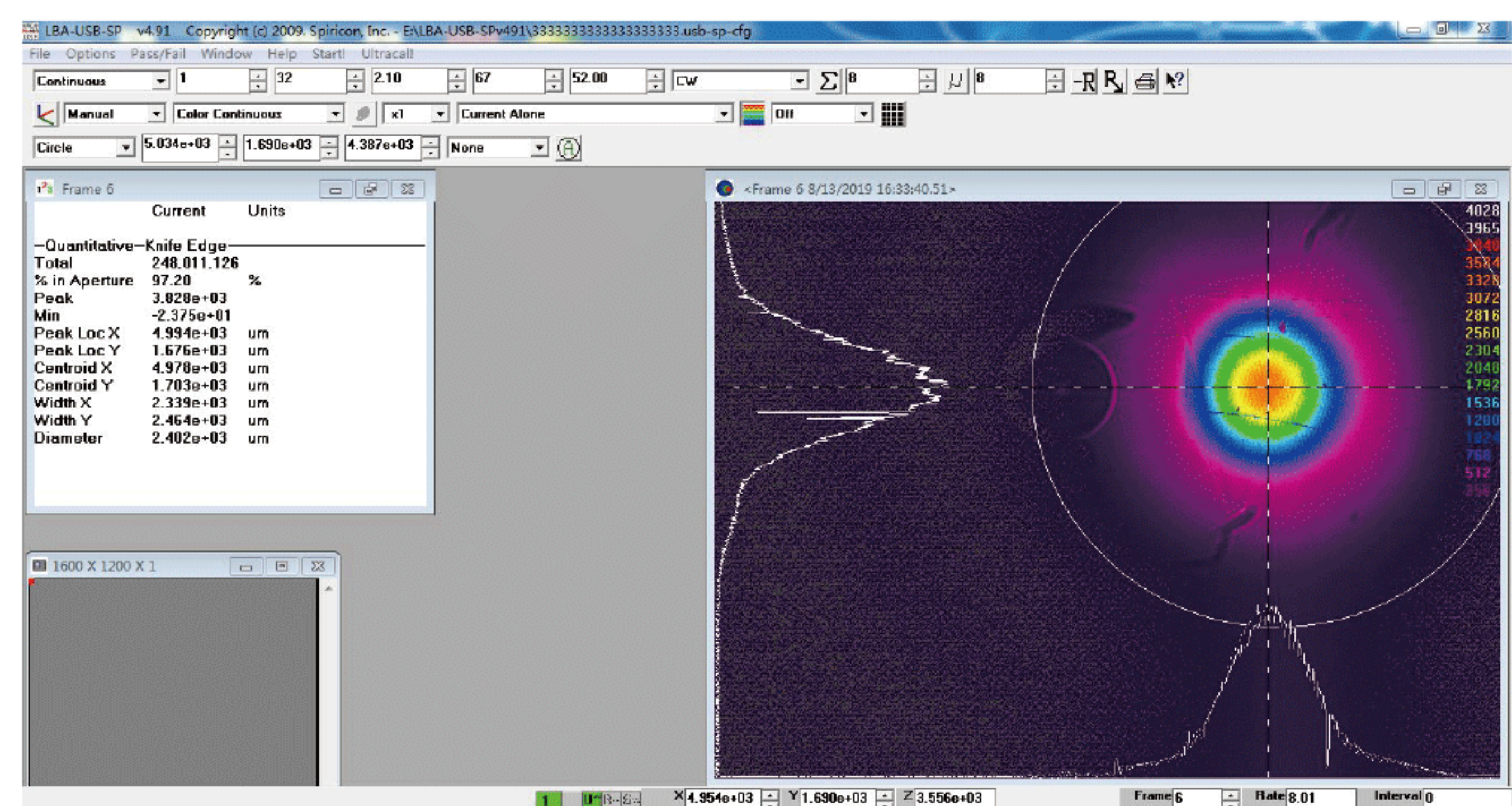
Applications

Laser Micromachining
Seed Laser
Analytical Instrument
Biophotonics

MCG Series										
Wavelength (nm)	1064					532				
Repetition rate (kHz)	10	50	50	100	100	10	50	50	100	100
Average power (mW)	25	100	250	100	300	10	40	100	50	150
Pulse energy (μJ)	2.5	2	5	1	3	1	0.8	2	0.5	1.5
Pulse width (ps)	550					500				
Power stability (8h)	±2%					±3%				
Beam profile	TEM ₀₀					TEM ₀₀				
Beam divergence full angle Typ.(mrad)	Horizontal @1/e ²	<9	<16	<20	<6	<10	<12			
	Vertical @1/e ²	<9	<16	<20	<6	<10	<12			
Polarization	>100:1					>100:1				
System parameters										
Supply power voltage	100-240 VAC, 50/60 Hz									
Modulation input	TTL 0-5V , SMA input									
Control interface	RS232, USB									
Power consumption (W)	<15	<35	<35	<40	<40	<20	<35	<40	<45	<45
Power dimensions (W×H×L, mm)	150×76×146									
Laser head dimensions (W×H×L, mm)	45×30×120									
Operation temperature (°C)	15-35									
Storage temperature (°C)	0-50									



Typical Pulse

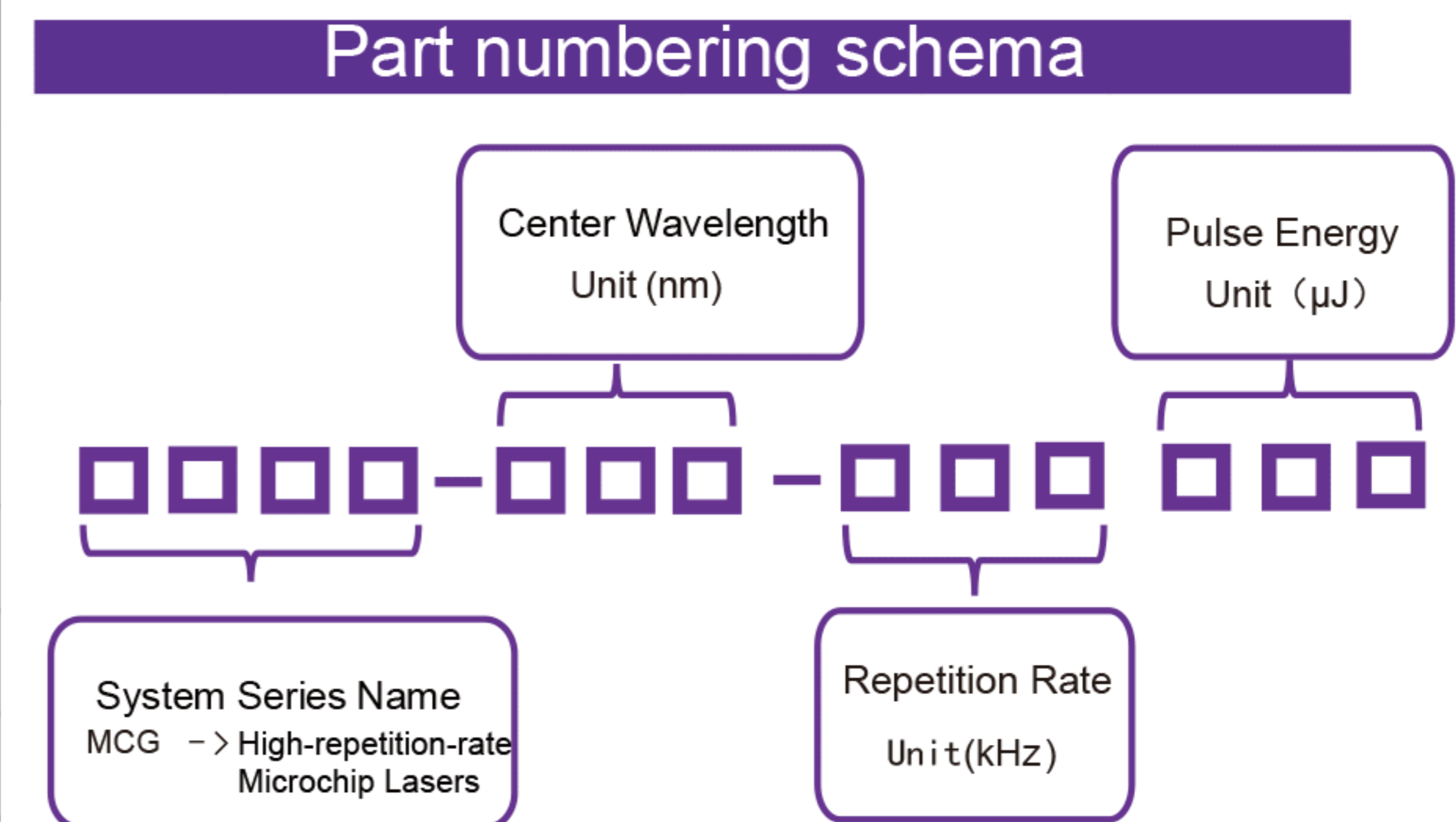


Beam Profile

Ordering information

MCG Series Model List			
Wavelength (nm)	Part Number	Repetition rate (kHz)	Pulse energy (μJ)
1064	MCG-1064-10-2.5	10	2.5
	MCG-1064-50-002	50	2
	MCG-1064-50-005	50	5
	MCG-1064-100-001	100	1
	MCG-1064-100-003	100	3
532	MCG-532-10-001	10	1
	MCG-532-50-0.8	50	0.8
	MCG-532-50-002	50	2
	MCG-532-100-0.5	100	0.5
	MCG-532-100-1.5	100	1.5

Part numbering schema



* All specifications are subject to change without prior notice

Mechanical Specifications

