



Electro Optical Components, Inc.

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MCE Series 900ps Microchip Lasers



Key Features

- ◆ Pulse width down to 900ps
- ◆ Pulse energy up to 180μJ
- ◆ Repetition rates up to 8kHz
- ◆ Excellent beam quality

Applications

Seed Laser
LIDAR
OCT
Laser Ranging

Raman Spectroscopy
Laser Micromachining
Optical Metrology

Air Monitoring
Laser Ultrasound Imaging
Nonlinear Optical Measurement

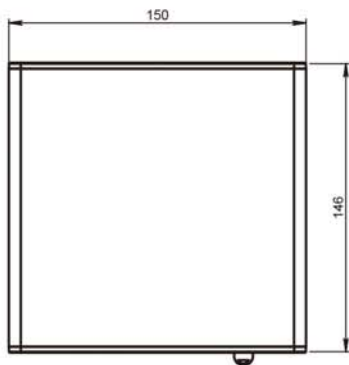
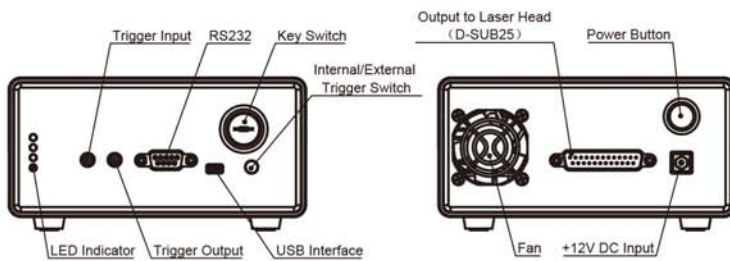
MCE Series																
Wavelength (nm)	1064				532				355				266			
Repetition rate (kHz)	0.1	1	4	8	0.1	1	4	8	0.1	1	4	8	0.1	1	4	8
Average power (mW)	18	120	400	480	8	70	160	240	4	30	80	80	1	5	8	8
Pulse energy (μJ)	180	120	100	60	80	70	40	30	40	30	20	10	10	5	2	1
Pulse width (ns)	1		0.95		0.95		0.9		0.95		0.9		0.95		0.9	
Power stability (8h)	±2%				±3%				±3%				±3%			
Beam profile	TEM ₀₀				TEM ₀₀				TEM ₀₀				TEM ₀₀			
Beam divergence full angle (mrad)	Horizontal @1/e ²		Typ.9		Typ.9		Typ.9		Typ.9		Typ.9		Typ.9		Typ.9	
	Vertical @1/e ²		Typ.9		Typ.9		Typ.9		Typ.9		Typ.9		Typ.9		Typ.9	
Polarization	> 100:1				> 100:1				> 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	<25	<35	<40	<20	<30	<40	<45	<25	<30	<35	<40	<30	<35	<40	<50
Power dimensions (mm)	146×76×150 (W×H×L)															
Laser head dimensions (mm)	45×30×120 (W×H×L)															
Operation temperature (°C)	15-35															
Storage temperature (°C)	0-50															

Ordering information

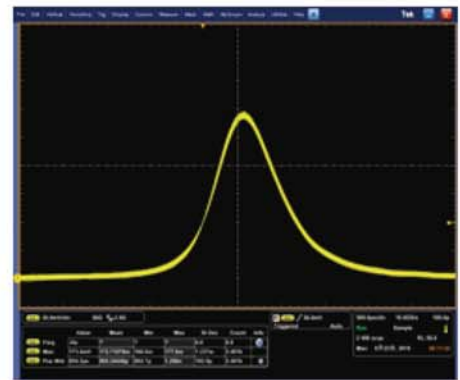
MCE Series Model List			
Wavelength (nm)	Part Number	Repetition rate (kHz)	Pulse energy (μJ)
1064	MCE-1064-0.1-180	0.1	180
	MCE-1064-1-120	1	120
	MCE-1064-4-100	4	100
	MCE-1064-8-060	8	60
532	MCE-532-0.1-080	0.1	80
	MCE-532-1-070	1	70
	MCE-532-4-050	4	50
	MCE-532-8-030	8	30
355	MCE-355-0.1-050	0.1	50
	MCE-355-1-030	1	30
	MCE-355-4-020	4	20
	MCE-355-8-010	8	10
266	MCE-266-0.1-010	0.1	10
	MCE-266-1-005	1	5
	MCE-266-4-002	4	2
	MCE-266-8-001	8	1

* All specifications are subject to change without prior notice

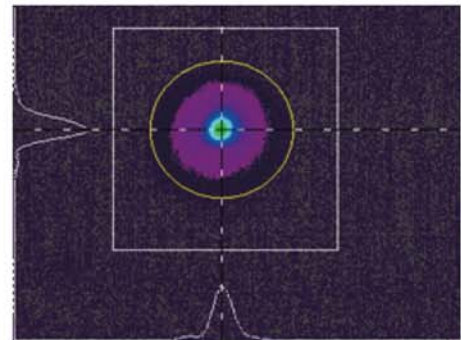
Mechanical Specifications



Unit: mm



Typical Pulse



Beam Profile

Part numbering schema

