



# Microchip Laser for LIDAR



## Key Features

- ◆ Excellent beam profile - TEM<sub>00</sub>
- ◆ High energy density, pulse width ≤ 1.5ns
- ◆ Pulse energy up to 120 μJ@1kHz
- ◆ Compact design

## Applications

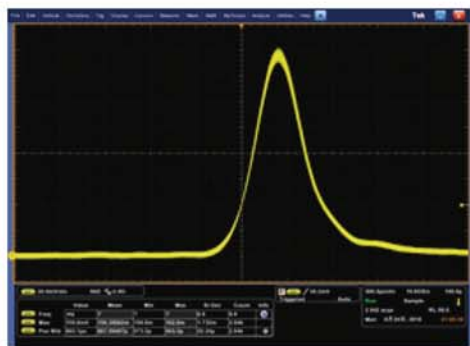
- ◆ LIDAR

## Optical Parameters

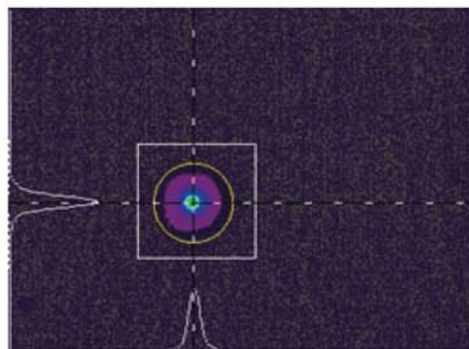
Wavelength (nm)	Part No.	Repetition rate (kHz)	Pulse energy (μJ)	Pulse width (ns)	Power stability (8h)	Beam profile	Beam divergence full angle (mrad)
1064	MCA-1064-1-120	1	120	1.5	± 3%	TEM <sub>00</sub>	typ.7
	MCA-1064-5-60	5	60	1.5			
	MCA-1064-10-40	10	40	1.5			
	MCA-1064-20-30	20	30	1.5			
	MCE-1064-1-120	1	120	1			
	MCE-1064-4-100	4	100	0.95			
	MCE-1064-8-60	8	60	0.95			
532	MCA-532-1-50	1	50	1.2			
	MCA-532-5-25	5	25	1.2			
	MCA-532-10-20	10	20	1.2			
	MCA-532-20-10	20	10	1.2			
	MCE-532-1-70	1	70	0.95			
	MCE-532-4-50	4	50	0.9			
	MCE-532-8-30	8	30	0.9			

## System Parameters

Supply power voltage	100-240 VAC,50/60 Hz
Modulation input	TTL 0-5V,BNC input
Control interface	Serial interface
Power consumption(W)	<50
Storage Humidity	10-80% RH
Power dimensions	146x76x150 (W×H×L, mm)
Laser head dimensions	45x30x120 (W×H×L, mm)
Storage temperature(°C)	0-50



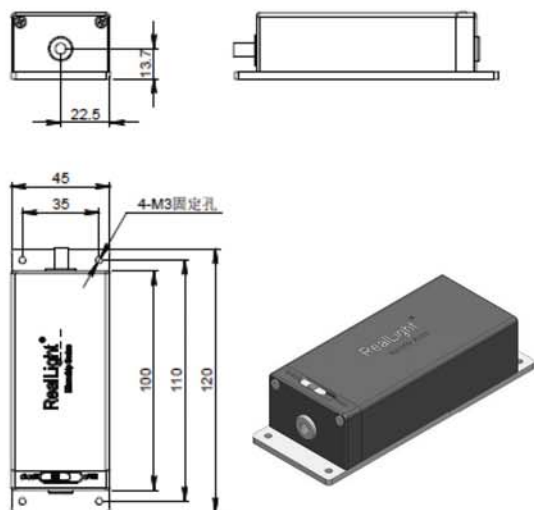
Typical pulse



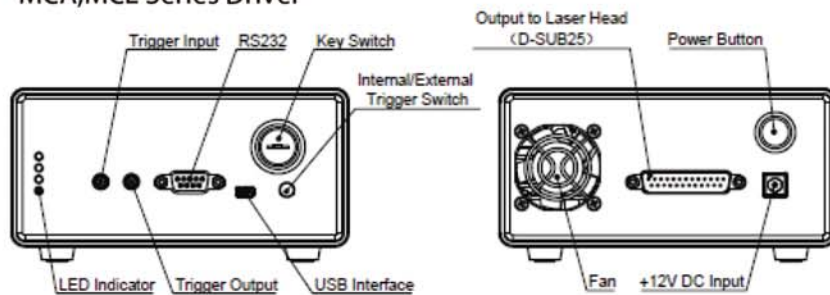
Beam profile

## Mechanical Specifications

### MCA, MCE Series Laser

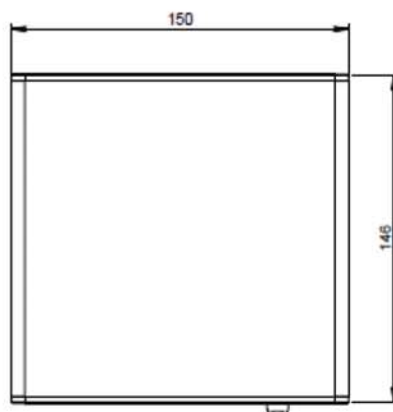


### MCA, MCE Series Driver



Front View

Back View



Top View



Unit: mm