



MPL-S-1064A-HF

LD PUMPED ALL-SOLID-STATE PASSIVELY LASER

The all-solid-state passively Q-switched laser, known for its high repetition rate and short pulse duration, is widely used in scientific research, material processing, photoacoustic imaging, fluorescence lifetime imaging, LIDAR, and LIBS (Laser-Induced Breakdown Spectroscopy).



SPECIFICATIONS

Wavelength (nm)		1064±1	
Operating mode		Passively	
Average power (mW) ^{1,2}		150-250	~60
Single pulse energy (μJ)		~2	
Pulse duration (ns)		~0.5	
Peak power (kW)		~4	
Rep. rate	Int ³	/	30kHz
	Ext ⁴	/	30kHz
	QCW ⁵	80-120kHz	/
Power stability (rms, 4 hours ±3°C)		<3%, <2%, <1%	
Transverse mode		TEM ₀₀	
M ²		<1.5	
Beam diameter at the aperture (mm)		~1	
Beam divergence, full angle (mrad)		<1.5	
Polarization ratio		>100:1, Vertical (Horizontal optional)	
Warm-up time (minutes)		<5	
Beam height from base plate (mm)		32	
Operating temperature (°C)		10-35	
Power supply (100-240VAC)		PSU-SR	
Expected lifetime (hours)		>10000	

LASER HEAD ⁶	HEATSINK (optional TC-02-FS)	POWER SUPPLY ⁷
<p style="text-align: center;">145(L)×80(W)×53(H) mm³, 1.15kg</p>	<p style="text-align: center;">202(L)×110(W)×47.5(H) mm³, 1.25kg</p>	<p style="text-align: center;">188(L)×145(W)×83(H) mm³, 1.2kg</p>

- 1 Average power (mW)= Single pulse energy (μJ)* Rep. rate(kHz)
- 2 This specification varies within this range from one device to another.
- 3 The frequency is selectable from one or five discrete values within the range.
- 4 External triggered.
- 5 The rep.rate is a free running value within this range.
- 6 The laser head needs to be used on a heat sink with good heat dissipation.
- 7 Fixed output energy.