



MPL-T-1064

LD PUMPED ALL-SOLID-STATE PASSIVELY LASER

All solid state passively laser has the features of high peak power and short pulse duration, which is widely used in scientific research, laser micromachining, laser radar ranging, environment monitoring, laser ultrasonic monitoring and LIBS (Laser Induced Breakdown Spectroscopy) etc.



SPECIFICATIONS

Wavelength (nm)		1064±1	
Operating mode		Passively	
Average power (mW) ¹		200-350	200-500
Single pulse energy (μJ) ²		20-35	35-100
Pulse duration (ns)		3-5	
Peak power (kW)		6.7-7	11.7-20
Rep. rate	Int ³	1Hz-4kHz	1Hz-3kHz
	Ext ⁴	1Hz-4kHz	1Hz-3kHz
	QCW ⁵	5-20kHz	4-6kHz
Power stability (rms, 4 hours ±3°C)		<3%, <2%, <1%	
Transverse mode		TEM ₀₀	
M ²		<1.5	
Beam diameter at the aperture (mm)		~1.2	
Beam divergence, full angle (mrad)		<1.5	
Polarization ratio		>100:1, Horizontal (Vertical optional)	
Warm-up time (minutes)		<5	
Beam height from base plate (mm)		22	
Operating temperature (°C)		10-35	
Power supply (100-240VAC)		PSU-III-FDA	/
Power supply (VDC)		PSU-III-OEM-97 (5V/5A)	PSU-T-OEM-I (12V/7A)
Expected lifetime (hours)		>10000	

LASER HEAD ⁶	HEATSINK (optional TC-04-FS)	POWER SUPPLY (PSU-III-FDA) ⁷
<p style="text-align: center;">110(L)×29(W)×33(H) mm³, 0.34kg</p>	<p style="text-align: center;">188(L)×76.2(W)×43(H) mm³, 0.65kg</p>	<p style="text-align: center;">171 (L) ×130(W) ×62.2 (H) mm³, 1.2kg</p>
DRIVER (PSU-III-OEM-97) ⁷	DRIVER (PSU-T-OEM-I) ⁷	
<p style="text-align: center;">100(L) ×75(W) ×65.5 (H) mm³, 0.23kg</p>	<p style="text-align: center;">56(L) ×50(W) ×25 (H) mm³, 0.07kg</p>	

- 1 Average power (mW)= Single pulse energy (μJ)* Rep. rate(kHz)
- 2 Any energy level can be selected within this range.
- 3 The frequency is selectable from one 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.