

Opto Engine LLC

Data sheet

Rev. 2102

MPL-N-1064/150~200μJ/1.5~3W



LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

Q-switched DPSS laser at 1064nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in laser marking on the diamond, metal, Steel, IC, Plastics, package, Logo, scientific research and etc.



SPECIFICATIONS

Wavelength (nm)		1064±1
Operating mode		Passively Q-switched
Average power (W)		1.5~3
Single pulse energy (μJ)		150~200
Pulse duration (ns)		<2
Peak power (kW)		~100
Rep. rate (kHz)	FIXED	Setting up one fixed rep. rate internal between 1kHz-10kHz with stable pulse energy, pulse duration and pulse period.
	EXT TRIG	1kHz-10kHz by external trigger with stable pulse energy, pulse duration and pulse period.
	QCW	QCW state with one rep. rate between 1kHz-15kHz.
Power stability (over 4 hours)		<1%, <2%, <3%, <5%
Transverse mode		TEM ₀₀
M ² factor		<1.2
Beam divergence, full angle (mrad)		<1.5
Beam diameter at the aperture (1/e ² ,mm)		~2.0
Warm-up time (minutes)		<10
Beam height from base plate (mm)		68.5
Operating temperature (°C)		10~35
Power supply (90-264VAC)		PSU-H-LED PSU-H-FDA PSU-N-OEM
Expected lifetime (hours)		10000
Warranty period		1 year
Pilot light (optional)		<5mW@650nm



MxL-N-1064	PSU-H-LED	PSU-H-FDA	PSU-N-OEM
<p>250 (L) × 99 (W) × 94 (H) mm³, 2.6 kg</p>	<p>277 (L) × 145 (W) × 106 (H) mm³, 2.6 kg</p>	<p>275 (L) × 145 (W) × 104 (H) mm³, 2.3 kg</p>	<p>215 (L) × 129 (W) × 122 (H) mm³, 2.1 kg</p>