

Opto Engine LLC

Data sheet

Rev. 0912

MPL-N-1064/150~250uJ/1500~1700mW

LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER

All solid state Q-switched laser at 1064nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in industry (marking on the diamond or stone), teaching of nonlinear optics.



SPECIFICATIONS

Wavelength (nm)		1064±1
Operating mode		Q-switched pulsed laser
Single pulse energy (μJ)		150~250uJ
Pulse duration (ns)		~8
Peak power (W)		25000~35000
Rep. rate (kHz)	Uncontrollable	Undefined rep. rate among 5k-15kHz and unstable laser pulse emitting. Suitable for the applications only needing high peak power pulses.
Average power (mW)		Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz)
Ave power stability (over 4 hours)		<3%, <5%
Transverse mode		Near TEM ₀₀
Warm-up time (minutes)		<10
M ² factor		<2. 0
Beam divergence, full angle (mrad)		<2. 0
Beam diameter at the aperture (mm)		~3.0
Beam height from base plate (mm)		68.2
Operating temperature (°C)		10~35
Power supply (90-264VAC)	PSU-H-LED	PSU-H-FDA
Expected lifetime (hours)	10000	
Warranty period	1 year	



MPL-N-1064	PSU-H-LED	PSU-H-FDA	PSU-N-OEM
235(L)×99(W) ×94(H) mm ³ , 2.6 kg	240 (L) ×146(W) ×108 (H) mm ³ , 2.6 kg	238 (L) ×146(W) ×102 (H) mm ³ , 2.3 kg	215 (L) ×108(W) ×122 (H) mm ³ , 2.145 kg