

MPL-H-1313/10~40uJ/1~200mW

LD PUMPED ALL-SOLID-STATE Q-switched LASER

All solid state Q-switched laser at 1313 nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in industry, scientific research, etc.



SPECIFICATIONS

Wavelength (nm)		1313±1
Operating mode		Q-switched pulsed laser
Max average power (mW)		100 200
Single pulse energy (μJ)		10~20 10~40
Pulse duration (ns)		~25 ~10
Peak power (W)		~1000 ~4000
Rep. rate (kHz)	Controllable	Specified One rep. rate, such as 1k, 2k, 3k, up to 5kHz, with stable laser pulses emitting (stable pulse energy, peak, duration and period). Different rep. rate in the range of 1Hz-5kHz can be obtained by input an external TTL signal.
	Uncontrollable	Undefined rep. rate among 5k-6kHz 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)		<1%, <3%, <5%
Transverse mode		Near TEM ₀₀
Warm-up time (minutes)		<10
M ² factor		<1.5
Beam divergence, full angle (mrad)		<2.0
Beam diameter at the aperture (mm)		~3.0
Beam height from base plate (mm)		29
Operating temperature (°C)		10~35
Power supply (90-264VAC)		PSU-H-FDA
Expected lifetime (hours)		10000
Warranty		1 year
Remarks		UV laser at 266nm or 355nm can be generated by MPL-H-1064 or MPL-H-532.



MxL-H-1313	Dimensions	PSU-H-FDA	Dimensions
 <p>153(L)×77(W)×60(H) mm³, 0.9 kg</p>		 <p>238 (L) ×146(W) ×102 (H) mm³, 2.3 kg</p>	