

MPL-H-1047/50~150uJ/1-300mW



LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER AT 1047 nm

All solid state Q-switched laser at 1047 nm 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, fiber communication, etc.



SPECIFICATIONS

Central wavelength (nm)		1047±1
Operating mode		Q-switched pulsed laser
Single pulse energy (μJ)		50~150
Pulse duration (ns)		~6
Peak power (W)		8400~25000
Rep. rate (kHz)	FIXED	Setting up one fixed rep. rate internal between 0.1Hz-1kHz with stable pulse energy, pulse duration and pulse period.
	EXT TRIG	0.1Hz-1kHz by external trigger with stable pulse energy, pulse duration and pulse period.
	QCW	QCW state with one rep. rate between 2k-3kHz.
Average power (mW)		Average power (mW) = Single pulse energy (μJ) * Rep. rate (kHz)
Ave power stability (over 4 hours)		<1%, <3%, <5%
Transverse mode		TEM ₀₀
Warm-up time (minutes)		<10
M ² factor		<1.5
Beam divergence, full angle (mrad)		<2.0
Beam diameter at 1/e ² (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 period		1 year



MxL-H-1047	PSU-H-FDA
<p>154.5(L)×77(W)×60(H) mm³, 0.9 kg</p>	<p>236(L)×145(W)×104(H) mm³, 2.3 kg</p>