

MPL-III-532/1~5uJ/1-30mW



LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER AT 532 nm

All solid state Q-switched laser at 532 nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in industry, marking, research, etc.



SPECIFICATIONS

Central wavelength (nm)		532 ± 1
Operating mode		Q-switched pulsed laser
Max average power (mW)		~15 ~30
Single pulse energy (µJ)		1~3 3~5
Pulse duration (ns)		~10 ~1.3
Peak power (W)		100~300 2300~3800
Rep. rate (kHz)	Controllable	Specified One rep. rate, such as 1k, 2k, 3k, up to 4kHz, with stable laser pulses emitting (stable pulse energy, peak, duration and period). Different rep. rate in the range of 1Hz-4kHz can be obtained by input an external TTL signal.
	Uncontrollable	Undefined rep. rate among 5k-20kHz 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		TEM ₀₀
Warm-up time (minutes)		<10
M ² factor		<1.2
Beam divergence, full angle (mrad)		<1.5
Beam diameter at 1/e ² (mm)		~1.2
Beam height from base plate (mm)		24.8
Operating temperature (°C)		10~35
Power supply (90-264VAC)		PSU-III-FDA
Expected lifetime (hours)		10000
Warranty period		1 year



MxL-III-532	PSU-III-FDA
<p>140.5 (L) × 73 (W) × 46.2 (H) mm³, 0.6kg</p>	<p>133 (L) × 130(W) × 62.2 (H) mm³, 1.2kg</p>