

MPL-III-523.5/1~10uJ/1-50mW



LD PUMPED ALL-SOLID-STATE Q-SWITCHED LASER AT 523.5

All solid state Q-switched laser at 523.5 nm has the features of high peak power, high repetition rate, and short pulse duration, which is widely used in medical, scientific research, industry, etc.



SPECIFICATIONS

Central wavelength (nm)	523.5 ± 1	
Operating mode	Q-switched pulsed laser	
Single pulse energy (μJ)	1~10	
Pulse duration (ns)	~15	
Peak power (W)	70~700	
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 4k-5kHz 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	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-523.5	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>