



LITHIUM LASERS



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The power of ultrafast focused on your needs

LithiumSix525

Product Description:

LithiumSix525 is our solid state frequency doubled femtosecond green laser specifically design for ultra-precise manufacturing applications. LithiumSix525 is a compact laser that emits very short pulses (< 150 fs) with high average powers up to 5 Watt.

The extreme peak to peak power stability, the excellent beam pointing steadiness and the long-term power stability of Lithium Six525 allows to achieve high accuracy and reliability in micro-fabrication processes. Moreover, the high average power ensures the operation of several parallel manufacturing platforms contributing to the optimization of the production costs.

Our LithiumSix525 is the right choice for scientific and industrial projects that aim to push the resolution well beyond the diffraction limit challenging the state-of-the-art in micromachining field.



Lithium Lasers Srl



LASER SPECIFICATIONS

Center Wavelength	$525 \pm 2.5 \text{ nm}$
Pulse Duration	$< 150 \text{ fs}$
Spectral Shape	Gaussian
Average Power	$1.5 - 5 \text{ W}^*$
Pulse Energy	$18.75 - 62.5 \text{ nJ}$
Repetition Rate	80 MHz^\dagger
Beam Quality	$M2 < 1.1$
PER	$> 23 \text{ dB}$
Amplitude Noise	$< 0.1 \% \text{ rms}$
Warm-up Time	$< 15 \text{ min}$
Operation Temperature	$10 - 40 \text{ }^\circ\text{C}$
Head dimensions	$430 \times 222 \times 114 \text{ mm}$
Head Weight	10 Kg

* Average power $> 5\text{W}$ are available upon request.

† Different repetition rates are available upon request.