



Waveguard Nd:YAG DPSS Lasers



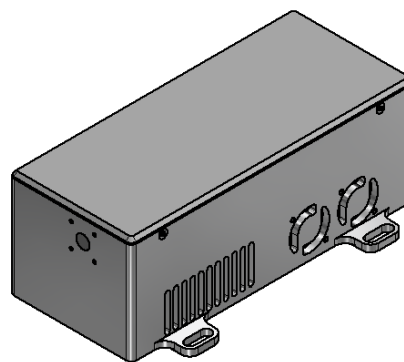
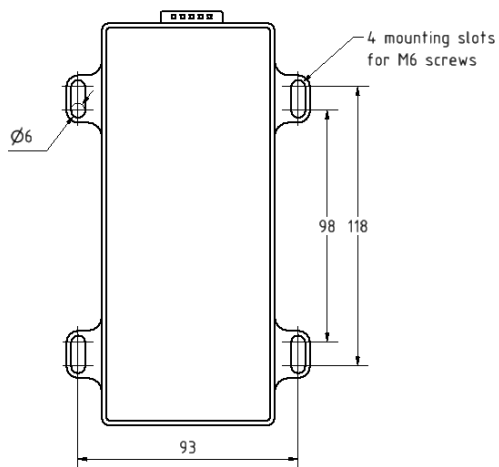
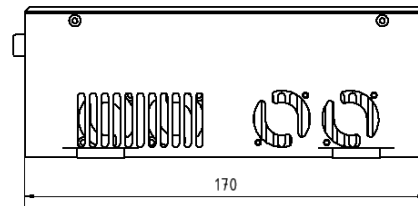
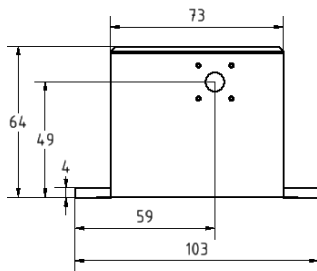
Waveguard laser is based on passive q-switched technology. Few millimeter long microchipped cavity allows very compact laser design with surprising performance, such as sub-nanosecond pulse widths and a peak power of several tens of kilowatts.

Additional harmonic modules of 532 nm and 266 nm wavelengths are available on request.

State-of-art design was created to assure easy laser integration into larger systems and setups of various applications.

Nd:YAG Diode Pumped Passively q-Switched Lasers

FEATURES	APPLICATIONS
<ul style="list-style-type: none"> Single longitudinal mode Robust and compact design Internal and external TTL triggering Laser controller with USB or RS232 interface OEM version available 	<ul style="list-style-type: none"> Material Processing & Micromachining LIBS Marking LIDAR & Laser Ranging Biophotonics



MAIN PARAMETERS	WAVEGUARD-A	WAVEGUARD-B	WAVEGUARD-D	WAVEGUARD-E	WAVEGUARD-2D
Wavelength	1064 nm	1064 nm	1064 nm	1064 nm	532 nm
Pulse repetition rate	10 kHz	20 kHz	1 kHz	100 Hz	1 kHz
Pulse duration	800 ps	800 ps	900 ps	1000 ps	800 ps
Pulse energy	20 µJ	10 µJ	120 µJ	400 µJ	20 µJ
Average output power	200 mW @10kHz	200 mW @20kHz	120 mW @1kHz	40 mW @100 Hz	20 mW @1kHz
Pulse to pulse energy stability	<1,5 %	<1,5 %	<1,5 %	<1,5 %	< 3%
Power stability, RMS	<3 %				
Beam diameter	<1 mm				
Beam quality	M2<1.2, TEM00				
Laser head size	170 x 103 x 64 mm				
Laser driver size	105 x 45 x 170 mm				
Applications	Material Processing, micromachining, LIDAR & Laser Ranging, LIBS				