ROITHNER LASERTECHNIK GmbH
WIEDNER HAUPTSTRASSE 76 1040 VIENNA AUSTRIA
TEL. +43 1 586 52 43 -0, FAX. -44, OFFICE@ROITHNER-LASER.COM

RLTMPL-532 30-150 mW

Q-SWITCHED PULSED LASER

Green Diode Pumped Solid State Q-switched Laser

All solid state 532 nm green q-switched laser featuring high peak power, high repetition rate and short pulse duration, which is widely used in industry, such as marking on the diamond or stone, teaching of nonlinear optics, experiments of generating 355nm or 266nm laser, fiber communication, etc.

Specifications		
Wavelength		532 ±1 nm
Operating Mode		Q-switched pulsed laser
Single pulse energy		5 – 30 µJ
Pulse Duration		~10 ns
Peak Power		300 – 1000 W
Rep. rate	Controllable	Specified one rep. rate, such as 1 k, 2 k, 3 k, up to 5 kHz, with stable laser pulses emitting (stable pulse energy, peak, duration and period)
		Different rep. rate in the range of 1 Hz – 5 kHz can be obtained by input an external TTL signal
	Uncontrollable	Undefined rep. rate among 5k – 30 kHz and unstable laser pulse emitting. Suitable for the applications only needing high peak power pulses
Average Power		Ave. power (mW) = Single pulse energy (µJ) * Rep. rate (kHz)
Ave. Power Stability (rms, over 4 hours)		< 1%, < 3%, < 5%
Transverse Mode		Near TEM_{00}
Warm-up time		< 10 min
M^2 factor		< 1.5
Beam Divergence (full angle)		< 2.0 mrad
Beam Diameter (at the aperature)		~ 3.0 mm
Beam Height (from base plate)		29.0 mm
Operating Temperature		10 - 35 °C
Power Supply (90-260VAC)		PSU-FDA (included)
Expected Lifetime		10000 hours
Warranty period		**1 year**

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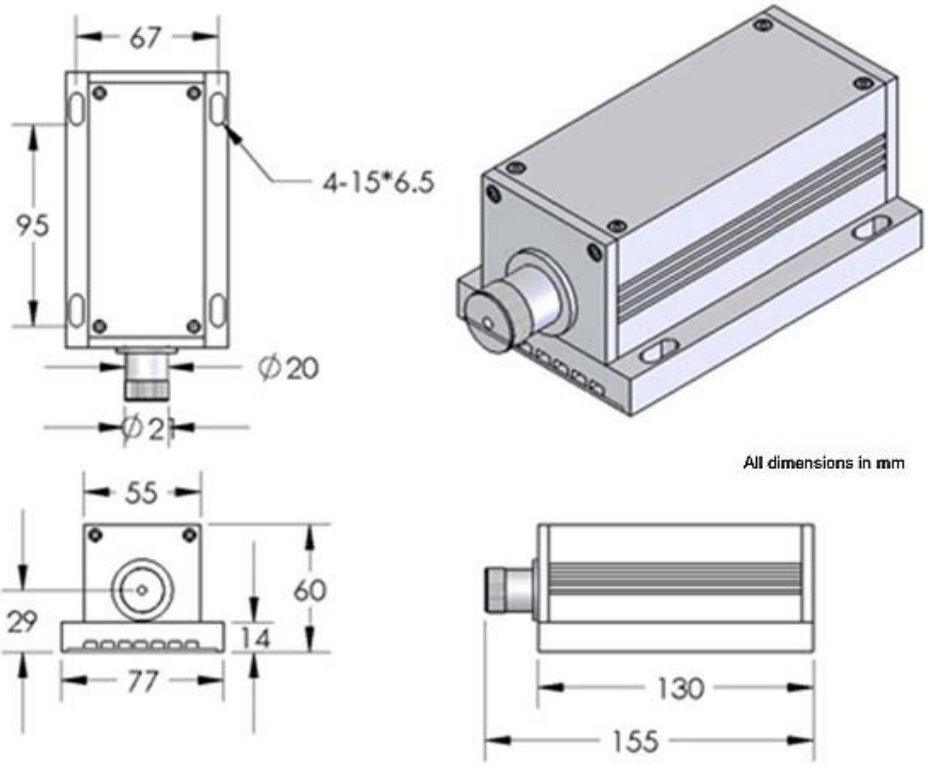
Laser head

155 x 77 x 60 mm³, 0.9 kg



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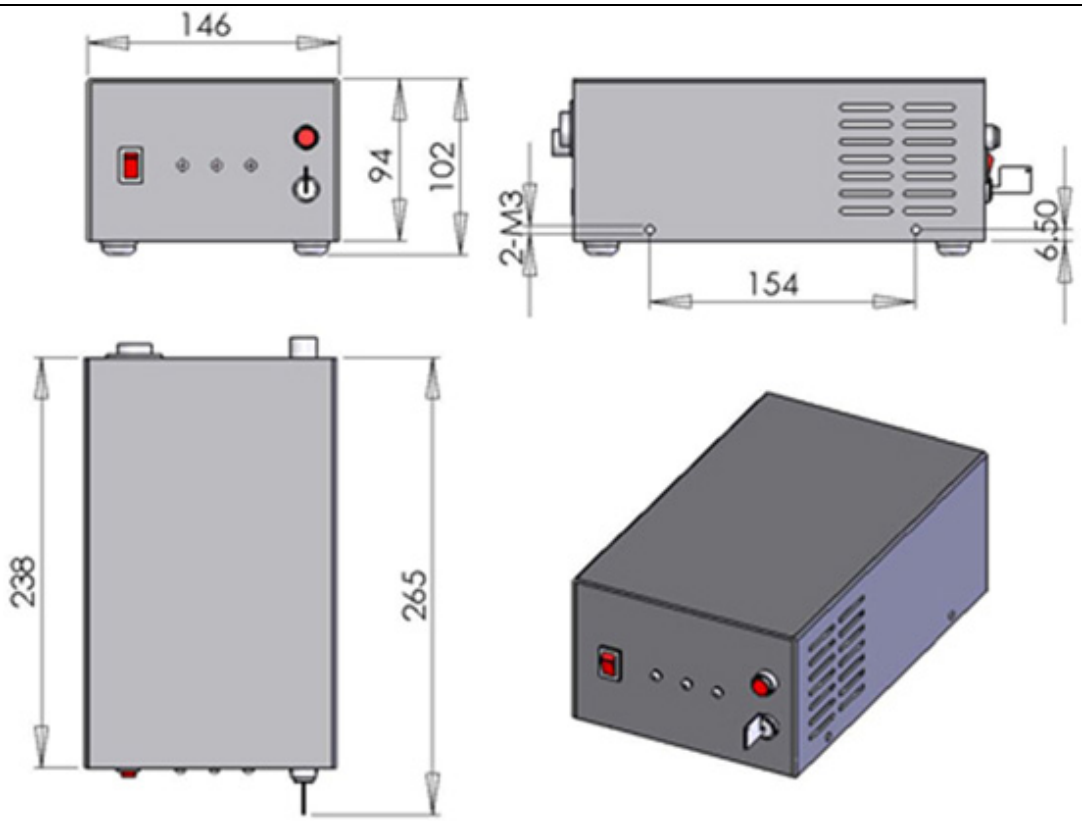
PSU-FDA power supply

238 x 146 x 102 mm³, 2.3 kg



All dimensions in mm