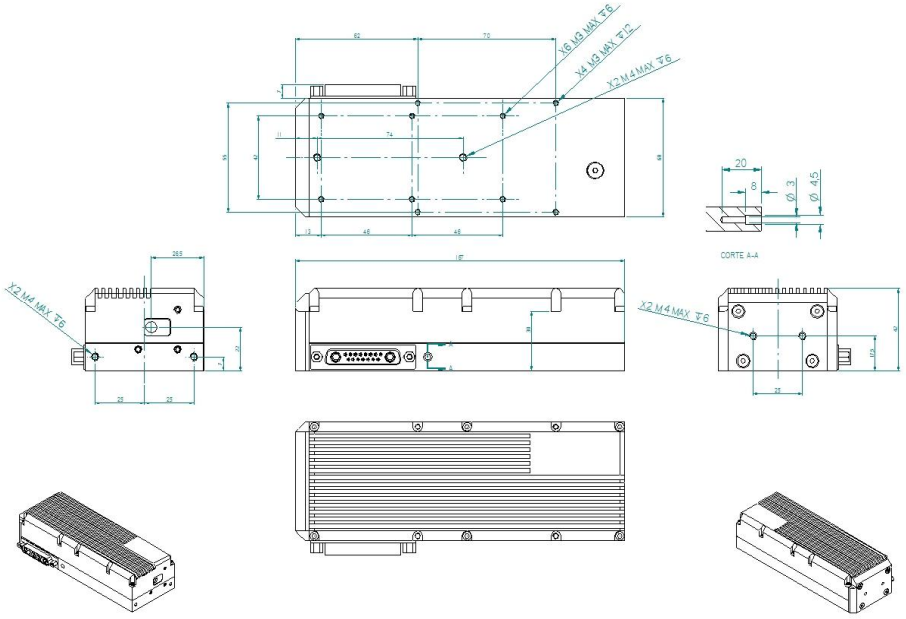
Product division	**DPSSL** Solid State Lasers
Part number	MP532-3W
Description	Diode-pumped Solid State Green Laser 3W CW - 8W QCW
Main Features	3W@532 nm at continuous wave (CW) and 8W quasi-continuous wave (QCW). Clamping technology mounted laser diode bar for pumping. Power on dema nd (switching On-Off). Multi-Path® technology. Low cooling requirements. High power stability. Monitor photodiode
Applications	Ophthalmology Dermatology Entertainment Industrial
Picture	
Outline	

MP532-3W | GENERAL SPECIFICATIONS

		Minimum	Operation	Max. rating
OPTICAL	Wavelength [nm]	531	532	533
	CW output peak power [W]		3	
	Modulated output peak power [W]		8	
	Output beam size [µm]		120 x 80	
	Beam position (height) [mm]		22	
	Divergence [mrad]			10
	M^2			4
ELECTRICAL	LD operating current, typ. [A]	10	28	40
	LD operating voltage [V]	1,6	1,7	1,9
	Monitor PD voltage (@3W, 10 kΩ) [V_{dc}]		1,5	2
	LD TEC current [A]			8
	LD TEC voltage [V_{dc}]		14	
	NLC TEC current [A]			2
	NLC TEC voltage [A]		4,8	
	Laser pulse duration [ms]	10		2500
	Repetition rate [Hz]	1	25	CW
	Rise and fall time [ms]	0,5(2)	2	5(3)
	Warm up time[3] [s]			30
	Power stability, short time (RMS)[1] [%]			1
MECHANICS	Operation temperature (housing)[4] [°C]	15		45
	Weight [g]		900	
	Dimensions [mm^3]		67 x 42 x 167	
	Expected Lifetime [h]		10.000	
	Laser class(EN-60825)		4	

Note: Not all maximum specifications can be achieved at a time

1. For the typical output power
2. Rise time for pulsed conditions, measured at 25Hz and 50%DC
3. Defined as the time required for laser stabilization (time to establish LD and NLC operation temperature and crystal thermal lens). In pulsed mode, the warm up time only affects the first pulses.
4. Within the temperature range, optical power could vary ±10%, to be compensated from the monitor photodiode signal through PID. For higher temperatures, laser head should be mounted on a cooled surface with a capacity to remove 60W waste heat at max. housing temp.

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