



6W 445nm Diode Laser

Absolute Maximum Ratings (Tc=25°C)

Item	Symbol	Absolut max. Ratings	Unit
Forward Current (Tc=25°C)	If	5000	mA
Allowable Reverse Current (Tc=25°C)	Ir (LD)	85	mA
Storage Temperature	Tstg	-40 ~ +85	°C
Operating Case Temperature	Tc	-10 ~ +50	°C

*Pulse width: 0.1us, Duty: 50%

Optical Characteristics

Item	Condition	Symbol	Min	Typ	Max	Unit
Optical Output Power (CW)	If=4000mA	Po	-	6000	-	mW
Dominant Wavelength	If=4000mA	λ_d	440	445	450	nm
Threshold Current	CW	Ith	350	-	500	mA
Operating current	CW	Iop	-	4000	-	mA
Operating Voltage	If=4000mA	Vop	3.7	-	5.0	V
Beam Divergence (raw diode beam)	If=4000mA	$\Delta\theta_{//}$	7	20	45	deg.
		$\Delta\theta_{\perp}$	50	65	70	deg.
Beam Size (4 σ)	If=4000mA	-	-	4x1	-	mm

Wires

Red = Plus

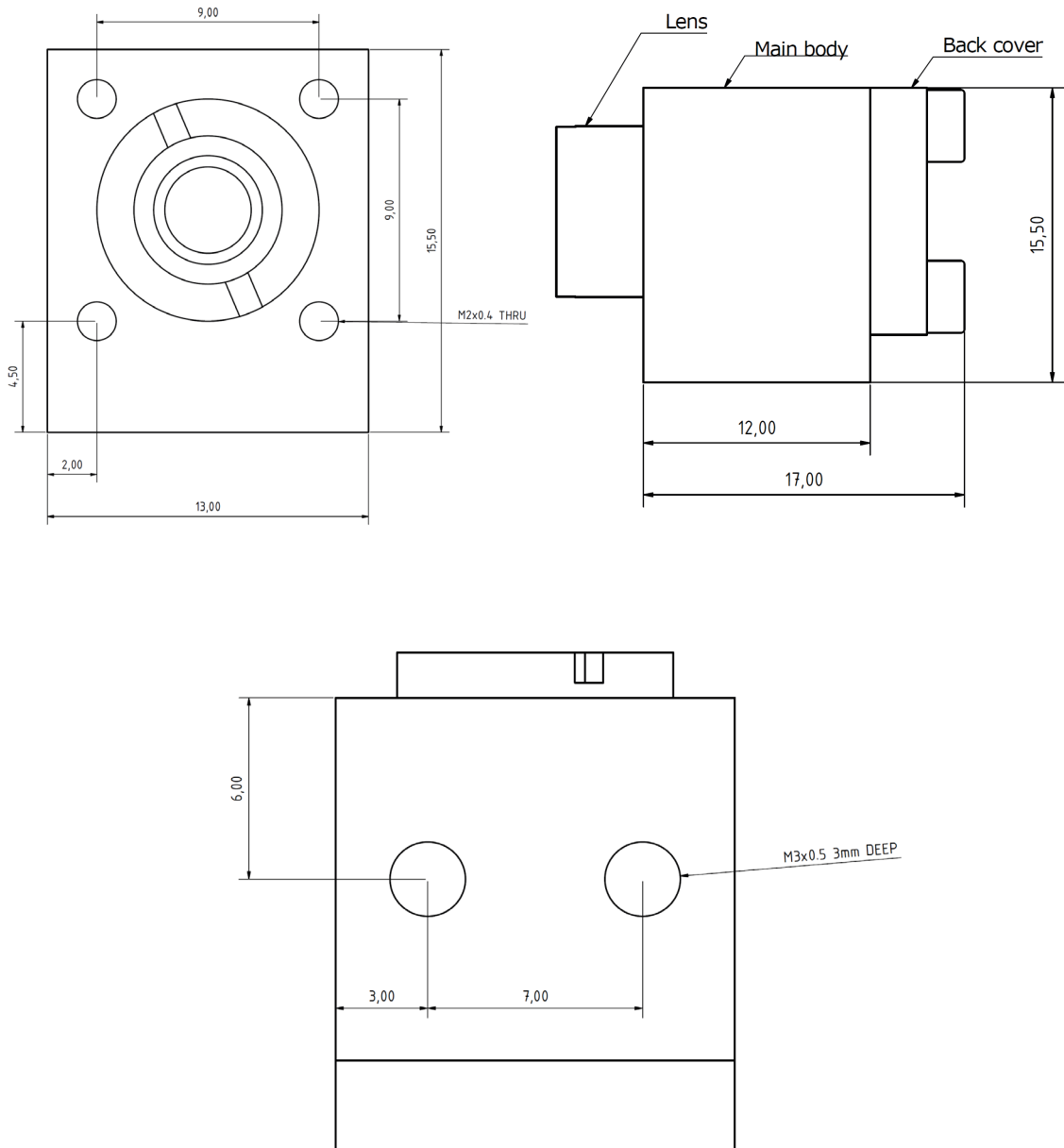
Black = Minus



LDM-445-6000

6W 445nm Diode Laser

Dimensions



Connecting wires:

Red: PLUS
Black: MINUS

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