

LIMO500-F400-DL980-S3013

High Power Diode Laser

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Your product benefits:

- Plug and play fiber connector
- High e/o efficiency
- Hermetically sealed housing
- 100% emitter and fiber incoming inspection
- 100% laser outgoing inspection

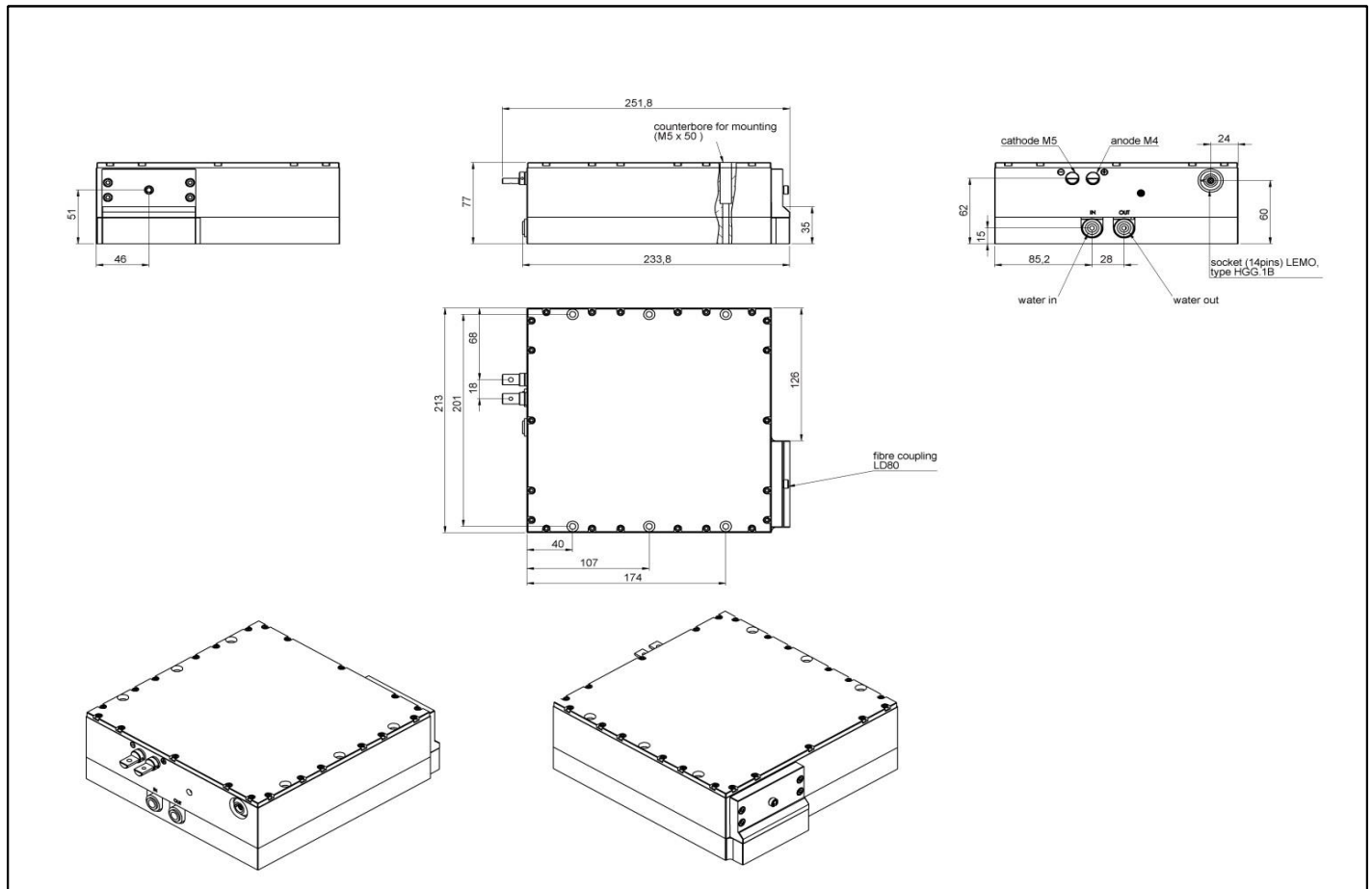
| Photonics Solutions |

LIMO laser and optics designed and engineered in Germany

Laser Module	Unit	Value	Unit	Value
Optical Data		Fiber Connection Data		
CW - nominal output power	W	500	Fiber core diameter	μm 400
Center wavelength	nm	980	Numerical aperture	0,22
Wavelength tolerance (±)	nm	10	Fiber - optic connector	LD80
Spectral width (FWHM)	nm	20	Cladding mode (max)	% not specified
Wavelength temperature drift	nm/K	0,4		
Thermal Operation Conditions		Package		
Nominal diode heat sink temperature	°C	25	Dimensions	mm ³ 252x213x77
Diode heat sink operation temperature	°C	+15...30	Weight basic package	kg 7
Minimum heat sink capacity	W	1230	Storage temperature	°C -20...+60
Chiller flow capacity	l/min	5		
Water pressure	bar	4		
Electrical Data				
Max. operation current start of life	A	80		
Max. operation current end of life	A	96		
Typical threshold current	A	8		
Typical operation voltage	V	20		
Typical slope	W/A	8,1		
Typical O/E efficiency	%	40		
Additional Features		Monitor Diode		
Pilot Beam				
Output power (min)	mW	1	Operation voltage	V 5
Wavelength	nm	635	Output signal (min)	V 0
Voltage	V	5	Output signal (max)	V 2,5
Current (max)	mA	40		
Fiber Detection Sensor (PNP)		Other Features		
Voltage	V	Not available	Temperature sensors	NTC & PT100
Current (max)	mA	Not available	Wavelength stabilization	Not available
Protection Filter				
High reflection bandwidth (>99.0% s+p pol.)	nm	Not available		

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LIMO500-F400-DL980-S3013 prepared for water cooling

All data provided are typically measured with a diode heat sink temperature of 25 °C. All measurements are made with a LIMO reference fiber 400 µm, length 1.5 m, and non AR coated.

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