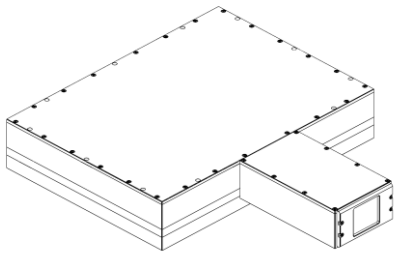
LIMO900-L30x0.09-DL980-EX1598

L³ LIMO Line Lasers® for Industrial Applications



product similar to image

Your Product Benefits:

- High homogeneity
- High e/o efficiency
- Compact housing
- Hermetically sealed housing

| Advanced Optical Solutions |

Laser Module	unit	value
Optical data		
CW - nominal output power	W	900
Center wavelength	nm	980
Wavelength tolerance (±)	nm	10
Spectral width (FWHM)	nm	10
Wavelength temperature drift	nm/K	0.3
Thermal operation conditions		
Nominal diode heat sink temperature	°C	25
Diode heat sink operation temperature	°C	+15…30
Heat sink capacity (min)	W	2300
Electrical data		
Typical operation current	A	60
Max. operation current	A	80
Typical threshold current	A	10
Typical operation voltage	V	40
Typcial slope	W/A	18
Typical e/o efficiency	%	43

	unit	value
Beam data[1]		
Horizontal: beam size at working distance	mm	31
Horizontal: line tolerance (±)	mm	1.6
Horizontal: beam profile		tophat
Horizontal: measured at level		FWHM
Vertical: beam size at working distance	mm	0.09
Vertical: line tolerance (±)	mm	0.015
Vertical: beam profile		gaussian
Vertical: measured at level		FWHM
Max. Inhomogeneity (Imax-Imin)/(Imax+Imin)	%	5
Inhomogeneity specified for line length	mm	30
Intensity (min)	kW/cm²	30
Working distance	mm	81
Working distance: tolerance (±)	mm	4
Roll-offs (10 % - 90 %)	mm	-
Package		
Dimensions (without connectors)	mm³	449x375x81
Weight basic package (~)	kg	18
Storage temperature	°C	-20…+60

Additional features	unit	value
Pilot beam		
Output power (max)	mw	not available
Wavelength	nm	not available
Voltage	V	not available
Current (max)	mA	not available
Fiber detection sensor (PNP)		
Voltage	V	not available
Current (max)	mA	not available
Protection filter		
High reflection bandwith (>99.0% s+p pol.)	nm	not available

	unit	value
Monitor diode		
Operation voltage	V	5
Output signal (min)	V	0
Output signal (max)	V	2.5
Other features		
Exchangeable protection window		yes
Temperature sensors		NTC & PT100

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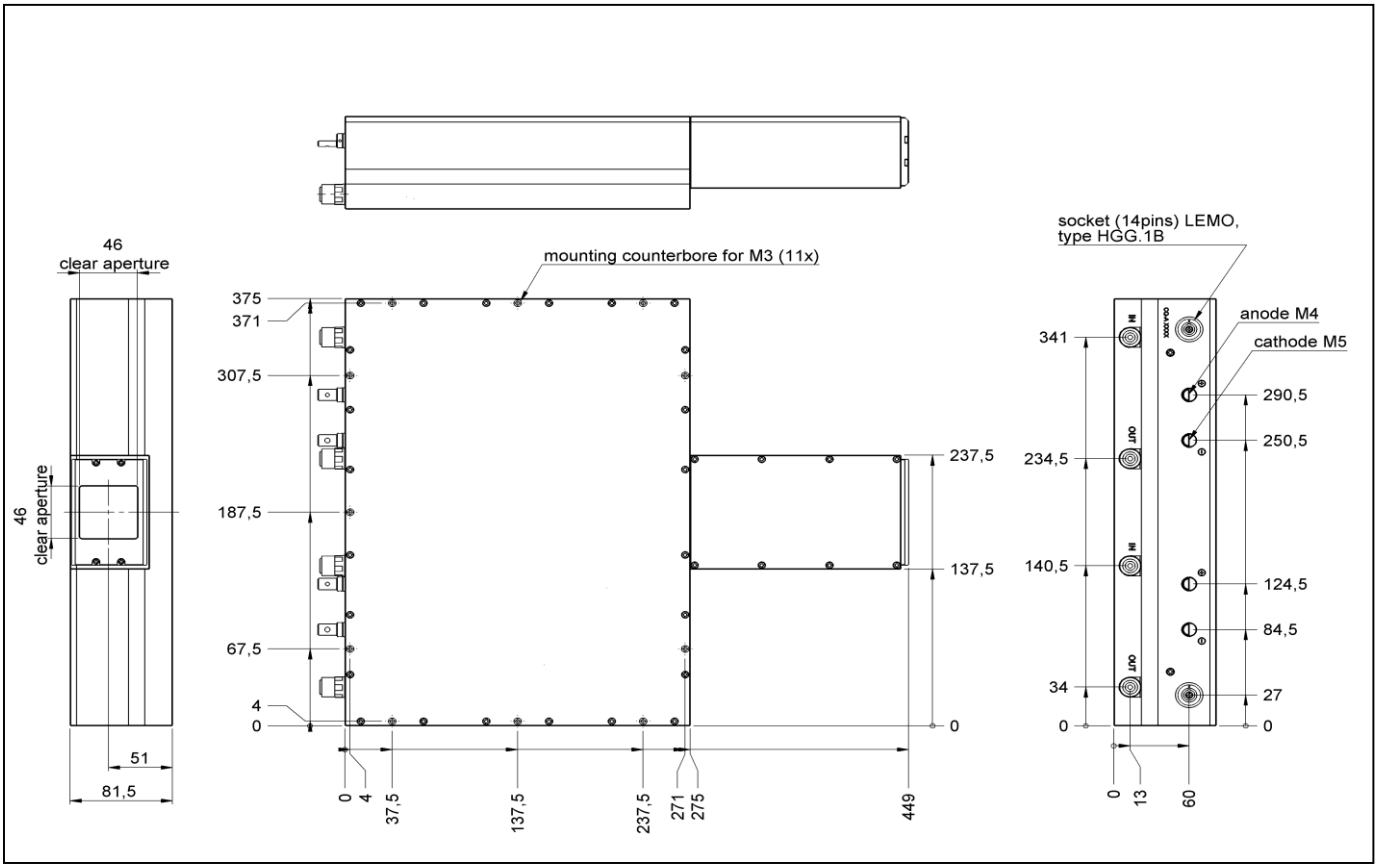
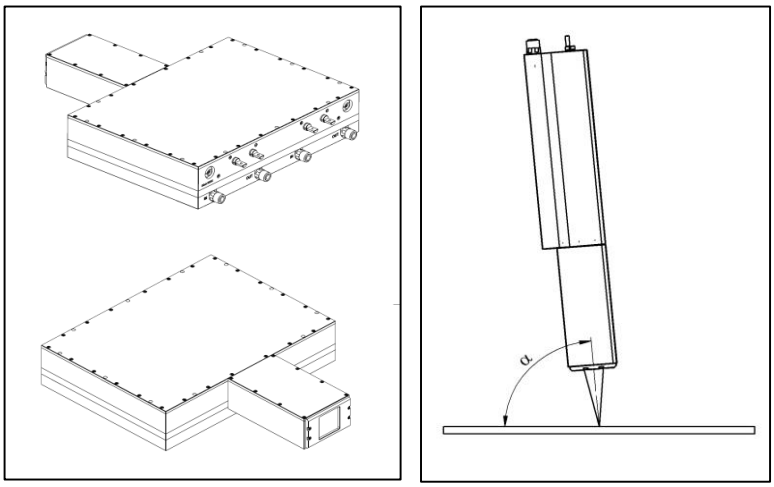


LIMO900-L30x0.09-DL980-EX1598 with water cooling



LIMO strongly recommend not to mount the laser perpendicular to the application,
LIMO recommends a 15° angle to avoid damaging of the laser module by direct back reflection of the laser light.

RoHS compliant
2002/95/EG

All data provided are typically measured with a diode heat sink temperature of 25 °C.

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Version May 02, 2012

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