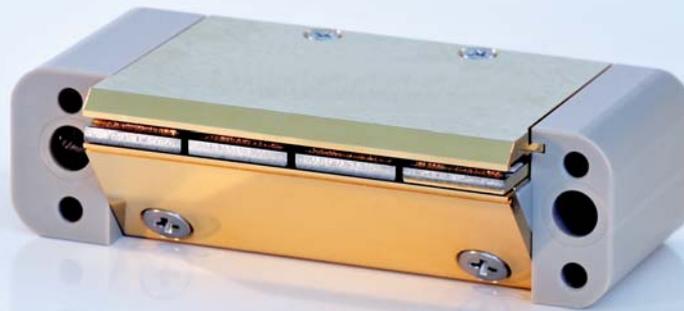




Horizontal Diode Laser Stacks

cw, actively cooled



JOLD-x-CANH-4L

Design 210560124

Features:

- High optical output power up to 320 W cw
- High efficiency, low divergences
- Lifetime > 10,000 h, high reliability

Applications:

- Pumping of solid-state lasers

Horizontal Diode Laser Stacks

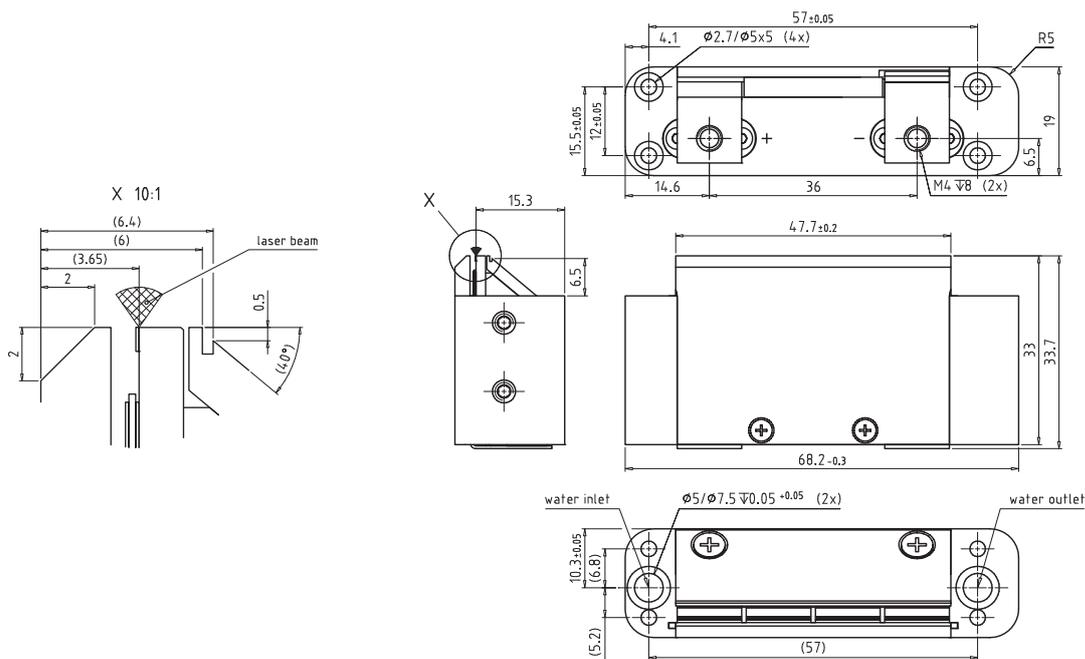
cw, actively cooled

Specifications (Start of Life)

Product	JOLD-200-CANH-4L, Design 210560124	JOLD-320-CANH-4L, Design 210560124	
Operation Mode	cw, power modulation only between threshold and maximum current		
Maximum Optical Output Power	200	320	W
Number of Submounts	4	4	
Power per Submount	50	80	W
Center Wavelength at 25 °C	807	807	nm
Center Wavelength Variation at 25 °C	3	3	nm
Typical Spectral Bandwidth (FWHM)	3	3	nm
Maximum Spectral Bandwidth (FWHM)	5	5	nm
Typical Operation Current	56	85	A
Maximum Operation Current	60	95	A
Typical Threshold Current	14	19	A
Maximum Threshold Current	18	22	A
Typical Slope	4.8	4.9	W/A
Minimum Slope	4.3	4.2	W/A
Maximum Operating Voltage	8	8	V
Typical Fast Axis Divergence FWHM	37	37	°
Typical Fast Axis Divergence 86 %	48	48	°
Typical Fast Axis Divergence 95 %	63	63	°
Typical Slow Axis Divergence FWHM	6	6	°
Typical Slow Axis Divergence 86 %	6	6	°
Typical Slow Axis Divergence 95 %	7	7	°
Anode, Cathode Connectors	Holes for screws M4, see drawing		
Operation Conditions	Cleanroom class 100, non-condensing atmosphere		
Expected Lifetime	> 10,000 h (constant current)		
Cooling:			
Flow Rate	1.3 l/min		
Flow Rate Tolerance	± 10 %		
Water Temperature	15 ... 30 °C		
Maximum Inlet Pressure	400 kPa		
Pressure Drop	< 200 kPa		
Water Quality	Deionized 2 ... 6 µS/cm, mixed bed ion exchanger, particle filter 25 µm (not included)		

See General User Information!

Options on request: 9xx nm



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