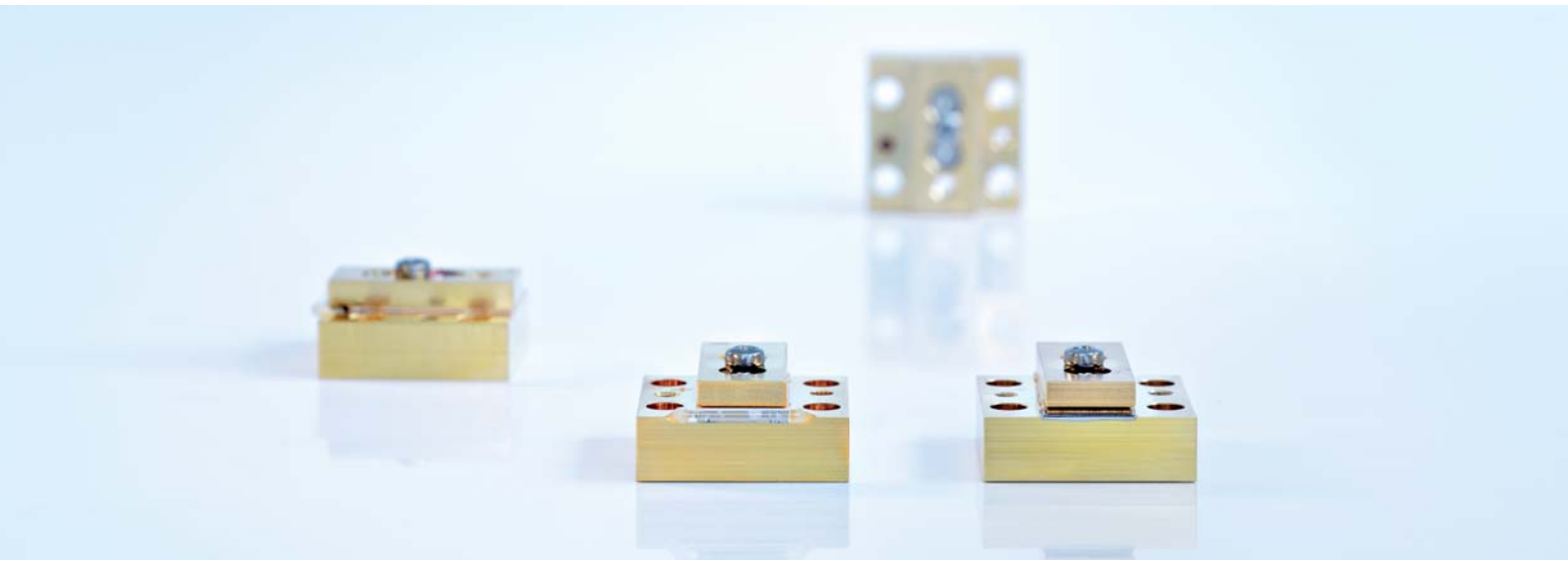




Open Heat Sink Diode Lasers

cw, passively cooled, new: 880 nm



JOLD-x-CPNN-1L

Design 215507124

Features:

- High optical output power up to 100 W cw
- High efficiency, low divergences
- Long lifetime > 20,000 h, high reliability

Applications:

- Pumping of solid-state lasers
- Print applications
- Medical applications

Open Heat Sink Diode Lasers

cw, passively cooled, new: 880 nm

Specifications (Start of Life)

Product

JOLD-x-CPNN-1L, Design 215507124

Operation Mode	cw / pulsed								
Maximum Optical Output Power	40	60	80	80	80	80	100	100	W
Center Wavelength at 25 °C	808	808	880	915	938	976	938	976	nm
Center Wavelength Variation at 25 °C	3	3	3	5	5	5	5	5	nm
Typical Spectral Bandwidth (FWHM)	3	3	3	3	3	3	3	3	nm
Maximum Spectral Bandwidth (FWHM)	4	5	5	5	5	5	5	5	nm
Typical Operation Current	40	59	81	79	79	83	112	116	A
Maximum Operation Current	45	65	91	89	89	93	122	126	A
Typical Threshold Current	7	10	9	6	6	6	14	14	A
Maximum Threshold Current	10	13	12	10	9	9	18	18	A
Typical Slope	1.25	1.25	1.15	1.10	1.10	1.05	1.05	1.00	W/A
Minimum Slope	1.05	1.05	0.95	0.95	0.95	0.90	0.90	0.85	W/A
Maximum Operating Voltage	2.0	2.0	1.8	1.8	1.8	1.8	1.8	1.8	V
Typical Fast Axis Divergence FWHM	35	35	27	27	27	28	27	28	°
Typical Fast Axis Divergence 86 %	45	47	34	34	34	36	34	36	°
Typical Fast Axis Divergence 95 %	60	63	46	46	46	47	46	47	°
Typical Slow Axis Divergence FWHM	6	6	7	6	6	6	6	6	°
Typical Slow Axis Divergence 86 %	6	7	7	7	7	7	7	7	°
Typical Slow Axis Divergence 95 %	7	9	8	9	9	9	8	8	°
Anode, Cathode Connectors	Threads 4-40 UNC-2B, 6-32 UNC-2B								
Operation Conditions	Cleanroom class 100, non-condensing atmosphere								
Expected Lifetime	> 20,000 h (constant current), partly under qualification								

Cooling:

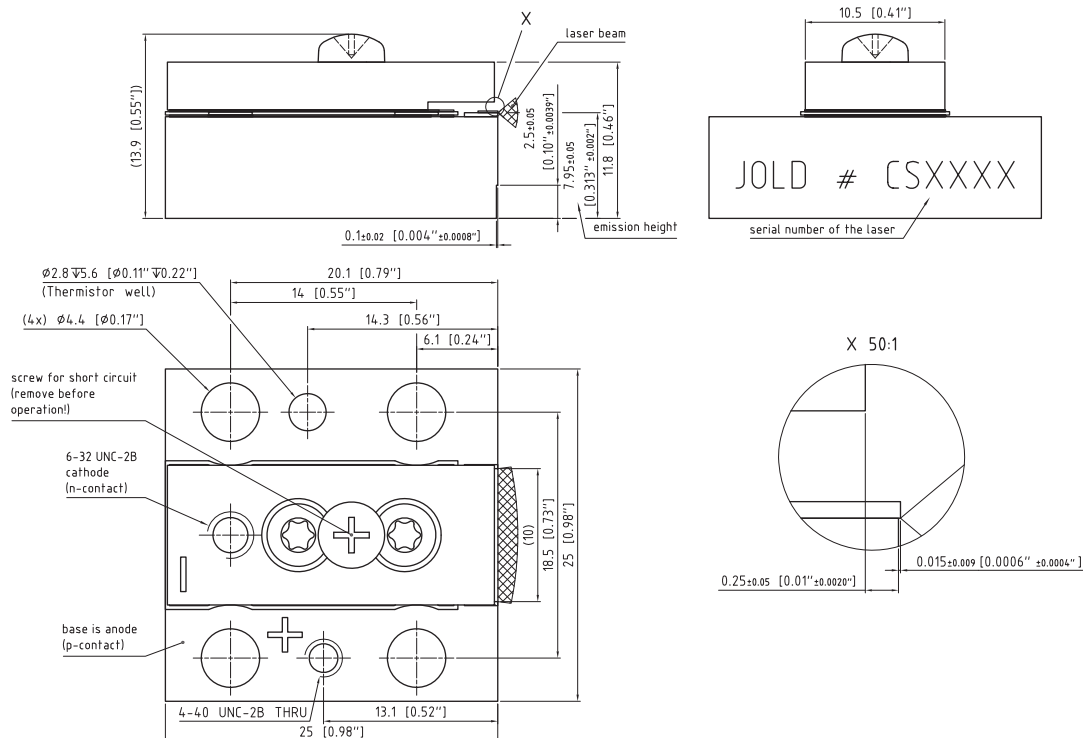
Mounting Via thermally conductive foil (thickness 25 ... 100 µm) on cooled surface (water cooled plate or TEC)

Note **Do not mount via any paste-like media!**

Operation Temperature 15 ... 30 °C, measured with temperature sensor in heatsink

See General User Information!

Options on request: 88x nm; for additional designs or specifications please visit our website: www.jenoptik.com



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