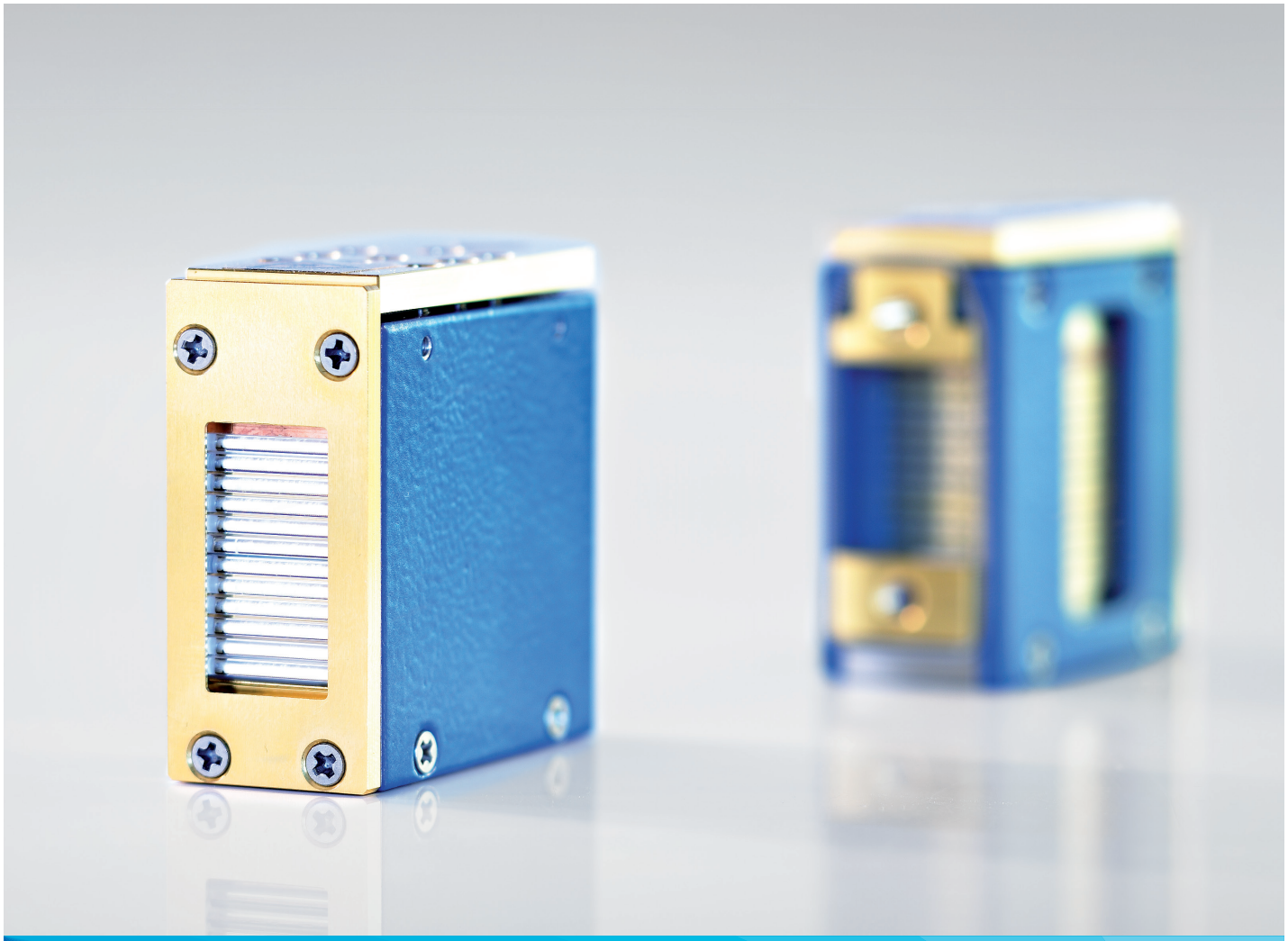


JENOPTIK

MORE LIGHT

JOLD-x-CAFN-xA

Vertical diode laser stacks: cw, actively cooled, with collimation, 807 nm

Designs
210480426 (4 submounts)
210480626 (6 submounts)
210480826 (8 submounts)
210481026 (10 submounts)
210481226 (12 submounts)

Features
- High optical output power of 45 W cw per bar after collimation
- Wavelength: 807 nm
- High efficiency, low divergences
- Lifetime > 10,000 h, high reliability

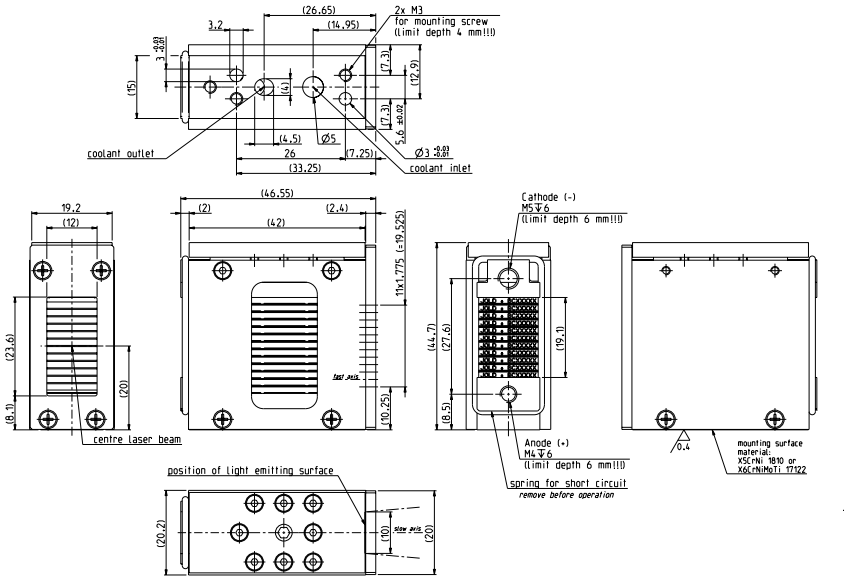
Applications
- Pumping of solid-state lasers and fiber lasers
- Material processing
- Medical applications (e.g. hair removal)

Vertical diode laser stacks | cw, actively cooled, with collimation, 807 nm
JOLD-x-CAFN-xA

Specifications (start of life)	JOLD-x-CAFN-xA Designs 210480426 (4 submounts), 210480626 (6 submounts), 210480826 (8 submounts), 210481026 (10 submounts), 210481226 (12 submounts)					
Operation Mode	cw, power modulation only between threshold and maximum current					
Maximum Optical Output Power	180	270	360	450	540	W
Number of Submounts	4	6	8	10	12	
Power per Submount after Collimation	45	45	45	45	45	W
Center Wavelength at 25 °C	807	807	807	807	807	nm
Center Wavelength Variation at 25 °C	3	3	3	3	3	nm
Typical Spectral Bandwidth (FWHM)	3	3	3	3	3	nm
Maximum Spectral Bandwidth (FWHM)	4	4	4	4	4	nm
Typical Operation Current	56	56	56	56	56	A
Maximum Operation Current	60	60	60	60	60	A
Typical Threshold Current	14	14	14	14	14	A
Maximum Threshold Current	18	18	18	18	18	A
Typical Slope	4.3	6.5	8.6	10.8	12.9	W/A
Minimum Slope	3.9	5.8	7.8	9.7	11.7	W/A
Maximum Operating Voltage	8	12	16	20	24	V
Fast Axis Divergence (Full Power)	< 0.5					°
Typical Slow Axis Divergence FWHM	5	5	5	5	5	°
Typical Slow Axis Divergence 86 %	5	5	5	5	5	°
Typical Slow Axis Divergence 95 %	7	7	7	7	7	°
Operation Conditions	Cleanroom class ISO 5, non-condensing atmosphere					
Expected Lifetime	> 10,000 h (constant current)					
Cooling						
Number of Submounts	4	6	8	10	12	
Flow Rate	1.7	2.3	3.0	3.6	4.3	l/min
Flow Rate Tolerance	± 10 %					
Water Temperature	15 ... 35 °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: 915 nm; for additional designs or specifications please visit our website: www.jenoptik.com



Design 210481226

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