



MORE LIGHT

JOLD-80-CANN-1L

## Open heat sink diode lasers: cw, actively cooled

Design 210470024

### Features

- High optical output power of 80 W cw
- Wavelengths: 807, 938 and 976 nm
- High efficiency, low divergences
- Lifetime > 10,000 h, high reliability

### Applications

- Pumping of solid-state lasers

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### Specifications (start of life)

### JOLD-80-CANN-1L Design 210470024

Operation Mode	cw, power modulation only between threshold and maximum current			
Maximum Optical Output Power	80	80	80	W
Center Wavelength at 25 °C	807	938	976	nm
Center Wavelength Variation at 25 °C	3	3	3	nm
Typical Spectral Bandwidth (FWHM)	3	3	3	nm
Maximum Spectral Bandwidth (FWHM)	4	4	4	nm
Typical Operation Current	85	87	87	A
Maximum Operation Current	95	97	97	A
Typical Threshold Current	19	15	15	A
Maximum Threshold Current	22	18	18	A
Typical Slope	1.25	1.15	1.15	W/A
Minimum Slope	1.05	0.95	0.95	W/A
Maximum Operating Voltage	2.0	1.8	1.7	V
Typical Fast Axis Divergence FWHM	37	27	27	°
Typical Fast Axis Divergence 86 %	48	34	34	°
Typical Fast Axis Divergence 95 %	63	46	46	°
Typical Slow Axis Divergence FWHM	6	6	6	°
Typical Slow Axis Divergence 86 %	6	6	6	°
Typical Slow Axis Divergence 95 %	7	7	7	°
Anode, Cathode Connectors	Holes for screws M3x4 (max. tightening torque 1 Nm)			
Operation Conditions	Cleanroom class ISO 5, non-condensing atmosphere			
Expected Lifetime	> 10,000 h (constant current)			
<b>Cooling</b>				
Flow Rate	0.33 l/min			
Flow Rate Tolerance	± 10 %			
Water Temperature	15 ... 35 °C			
Maximum Inlet Pressure	400 kPa			
Pressure Drop	< 200 kPa			
Water Quality	Deionized 5 ... 10 µS/cm, regulated mixed-bed ion exchange system in bypass, particle filter < 15 µm (not included)			

### See safety and general user information!

Options on request: For additional designs or specifications please visit our website: [www.jenoptik.com](http://www.jenoptik.com)

