



Single Emitter Diode Lasers

cw, passively cooled, with and without collimation



JOLD-8-BA-1E
JOLD-7-BAF-1E

Features:

- High optical output power of 8 W cw without collimation and 7 W cw after collimation
- High efficiency, low divergences
- Lifetime > 10,000 h, high reliability

Design 215700124
Design 215700126

Applications:

- Pumping of solid-state lasers
- Print applications

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Specifications (Start of Life)

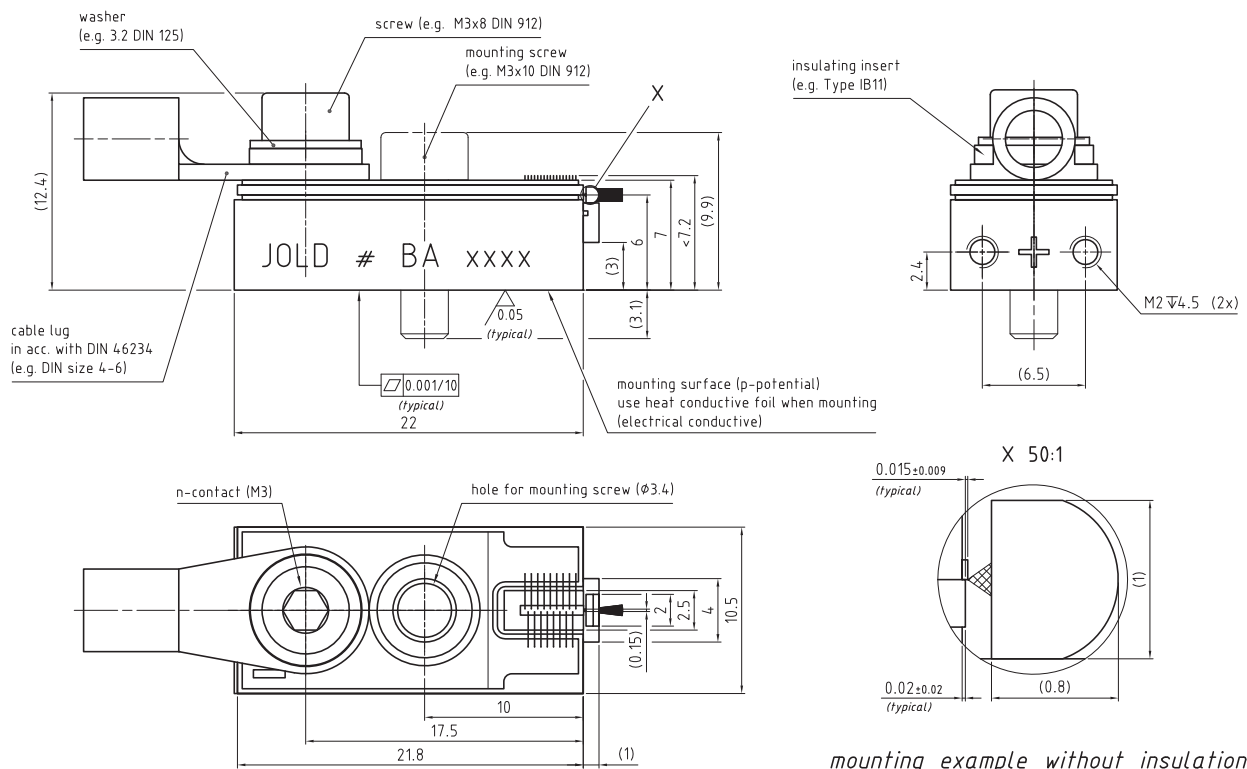
Product	JOLD-8-BA-1E, Design 215700124	JOLD-7-BAF-1E, Design 215700126
Operation Mode	cw	cw
Max. Optical Output Power	8	7
Max. Optical Output Power after Collimation		W
Emitter Width	200	200
Center Wavelength at 25 °C	808	808
Center Wavelength Variation at 25 °C	4	4
Typical Spectral Bandwidth (FWHM)	3	3
Maximum Spectral Bandwidth (FWHM)	5	5
Typical Operation Current	8.5	8.5
Maximum Operation Current	10	10
Typical Threshold Current	1.2	1.2
Maximum Threshold Current	1.5	1.5
Typical Slope	1.10	1.00
Minimum Slope	0.90	0.75
Maximum Operating Voltage	2	2
Fast Axis Divergence (Full Power)		< 0.5
Typical Fast Axis Divergence FWHM	25	
Typical Fast Axis Divergence 95 %	47	
Typical Slow Axis Divergence FWHM	8	8
Typical Slow Axis Divergence 95 %	10	10
Anode, Cathode Connectors	Base, via M3 screw	
Operation Conditions	Cleanroom class 100, non-condensing atmosphere	
Expected Lifetime	> 10,000 h (constant current), 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 heatsink temperature

See General User Information!

Options on request: Design 215700224 for electrically insulated mounting



mounting example without insulation



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