



Fiber-Coupled Diode Lasers

cw, passively cooled, new: 880 nm



JOLD-30-FC-12
JOLD-30-FC-14

Design 215627124
Design 215627224

Features:

- High optical output power of 30 W cw
- Fiber core diameter: 200 μm | 400 μm (NA 0.22)
- Cooling via mounting plate
- Long lifetime > 20,000 h, high reliability

Applications:

- Pumping of solid-state lasers and fiber lasers
- Material processing
- Medical applications

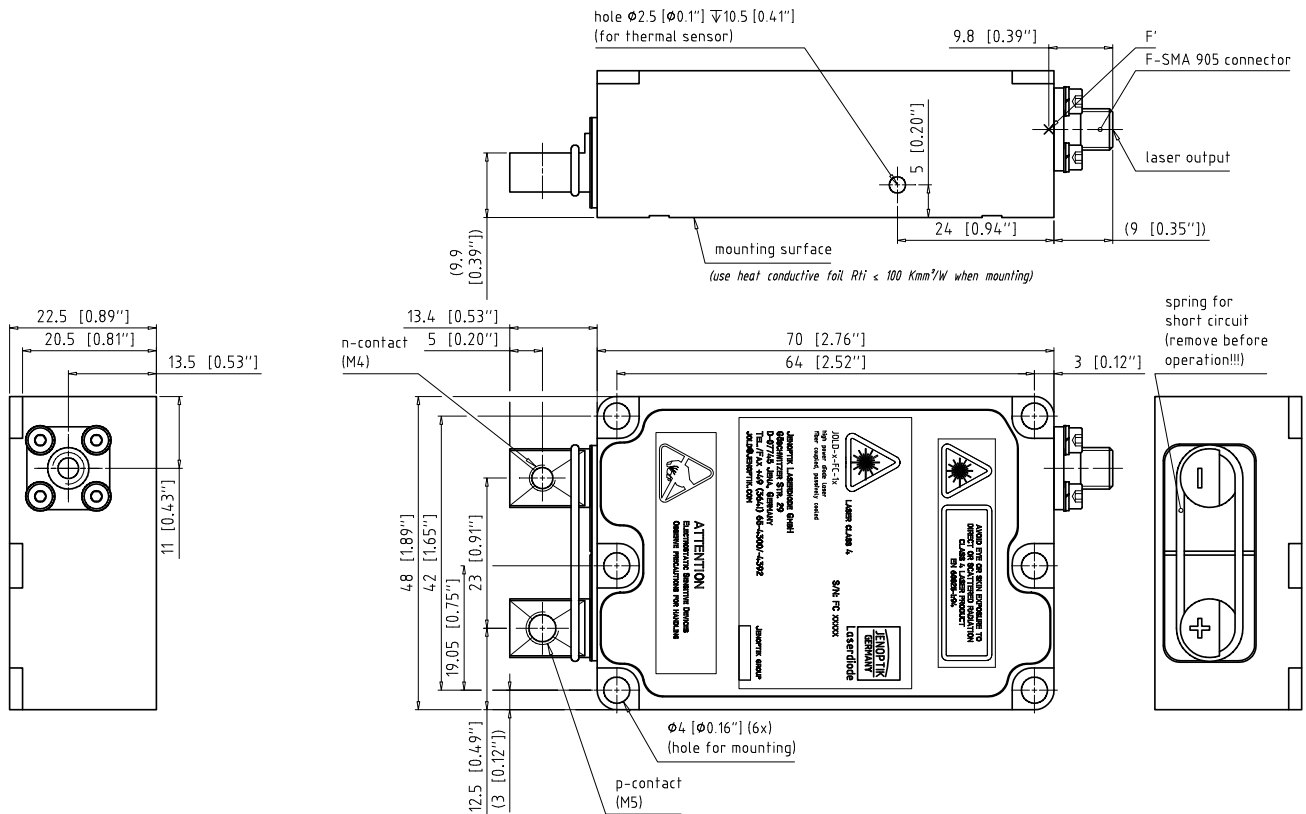
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Specifications (Start of Life)

Product	JOLD-30-FC-12, Design 215627124 / JOLD-30-FC-14, Design 215627224					
Operation Mode	cw, power modulation only between threshold and maximum current					
Maximum Optical Output Power	30	30	30	30	W	
Center Wavelength at 25 °C	808	880	915	938	976	nm
Center Wavelength Variation at 25 °C	3	3	5	5	3	nm
Typical Spectral Bandwidth (FWHM)	3	4	4	4	4	nm
Maximum Spectral Bandwidth (FWHM)	4	5	5	5	5	nm
Typical Operation Current	40	43	42	42	44	A
Maximum Operation Current	45	47	47	47	47	A
Typical Threshold Current	7	9	6	6	6	A
Maximum Threshold Current	10	12	9	9	9	A
Typical Slope	0.95	0.90	0.85	0.85	0.80	W/A
Minimum Slope	0.75	0.75	0.70	0.70	0.70	W/A
Maximum Operating Voltage	2	2	2	2	2	V
Fiber Core Diameter, Numerical Aperture	JOLD-30-FC-12, Design 215627124: 200 µm, NA 0.22 JOLD-30-FC-14, Design 215627224: 400 µm, NA 0.22					
Fiber Centricity	< 10 µm					
Fiber Connector	F-SMA 905, free standing fiber towards the module					
Anode, Cathode Connectors	M5, M4 (case isolated)					
Operation Conditions	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					
Note	Do not mount via any paste-like media!					
Diode Laser Operating Temperature	15 ... 30 °C at temperature sensor					
Temperature Sensor	Hole for thermal sensor, see drawing					
	See General User Information!					

Options on request: 88x nm; fiber core diameter 800 µm, NA 0.14



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