JENOPTIK
GERMANY

Fiber-Coupled Passively Cooled cw Diode Lasers

JOLD-30-FC-18

Design 15621824

Features:

- High optical output power of 30 W cw
- Fiber core diameter: 800 µm (NA 0.14)
- Long lifetime > 20,000 h, high reliability
- Passively cooling

LongLife Technology™

Applications:

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

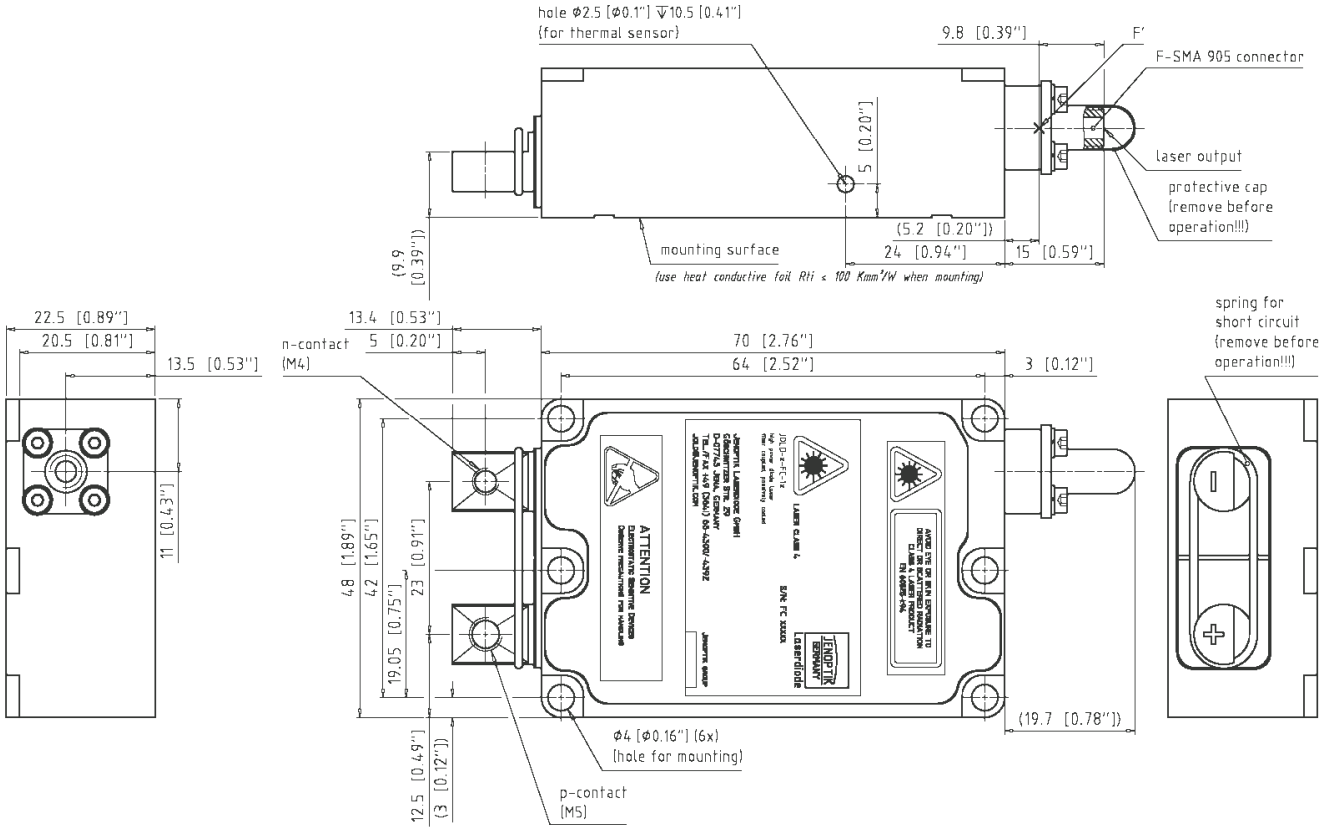
Diode Laser Group

Fiber-Coupled Passively Cooled cw Diode Lasers

Preliminary Specifications (Start of Life)

Product	JOLD-30-FC-18, Design 15621824				
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	915	938	976	nm
Center Wavelength Variation at 25°C	3	5	5	3	nm
Typical Spectral Bandwidth (FWHM)	3	3	3	3	nm
Maximum Spectral Bandwidth (FWHM)	4	4	4	4	nm
Typical Operation Current	41	42	42	44	A
Maximum Operation Current	45	47	47	47	A
Typical Threshold Current	7	6	6	6	A
Maximum Threshold Current	10	9	9	9	A
Typical Slope	0.9	0.9	0.9	0.8	W/A
Minimum Slope	0.7	0.7	0.7	0.7	W/A
Maximum Operating Voltage	2.2	2.2	2.2	2.2	V
Fiber Core Diameter, Numerical Aperture	800 µm, NA 0.14				
Fiber Centricity	< 10 µm				
Fiber Connector	F-SMA 905, free standing fiber towards the module				
Expected Lifetime	> 20,000 h (constant current)				
Cooling	Mounting via thermally conductive foil (thickness 25...100 µm) on cooled surface. 15...30°C at temperature sensor. **Do not mount via any paste-like media!**				
Temperature Sensor	Hole for thermal sensor, see drawing				
Anode, Cathode Connectors	M5, M4				
Operation Conditions	Non-condensing atmosphere **See General User Information!**				

Options on request: 981 nm



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