

Fiber-Coupled Diode Lasers

cw, passively cooled with tap water



JOLD-250-CPXF-2P2

Features:

- High optical output power of 250 W cw
- Fiber core diameter: 400 µm (NA 0.22)
- Integrated pilot laser and power monitor
- Long lifetime > 20,000 h, high reliability

Design 215640224

Applications:

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

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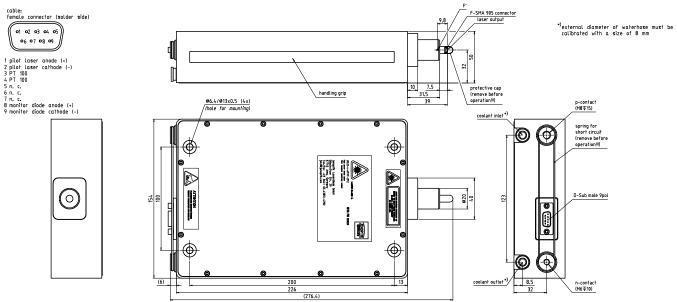
Specifications (Start of Life)

Product	JOLD-250-CPXF-2P2
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	Design 21304022	+				
Operation Mode	cw, power modula	cw, power modulation only between threshold and maximum current				
Maximum Pulse Length / Duty Cycle						
Maximum Optical Output Power	250	250	250	W		
Center Wavelength at 22 °C*	915	938	976	nm		
Center Wavelength Variation at 22 °C*	5	5	3	nm		
Typical Spectral Bandwidth (FWHM)	3	3	3	nm		
Maximum Spectral Bandwidth (FWHM)	5	5	5	nm		
Typical Operation Current	130	130	130	А		
Maximum Operation Current	140	140	140	А		
Typical Threshold Current	15	15	15	А		
Maximum Threshold Current	18	18	18	А		
Typical Slope	2.2	2.2	2.2	W/A		
Minimum Slope	2.0	2.0	2.0	W/A		
Maximum Operating Voltage	8	8	8	V		
Fiber Properties	400 μm, NA 0.22; metal armored patchcord only					
Fiber Connector	HP-SMA 905, epoxy free, both ends free standing					
Power Monitor	Infineon, SFH 229					
Pilot Laser	$0.5 \dots 3 \text{ mW}$, $650 \text{ nm} \pm 15 \text{ nm}$, $3 \dots 5 \text{ V}$, $40 \pm 15 \text{ mA}$, power not adjustable					
	(only for teaching and targeting purposes before laser operation)					
Anode, Cathode Connectors	M8, M6 (e.g. socket cap screws ISO 4762)					
Signal Connector	D-Sub, male, 9 pin					
Operation Conditions	Non-condensing atmosphere					
Expected Lifetime	> 20,000 h (constant current), under qualification					
Cooling:						
Flow Rate	4 6 l/min					
Operation Temperature	8 20 °C water temperature (12 25 °C measured with internal temperature sensor)					
Maximum Inlet and Outlet Pressure	400 kPa					
Pressure Drop	60 150 kPa					
Water Connectors	Ø 8 mm (OD) push-in fittings					
Water Quality	Industrial water, ur	Industrial water, unfiltered up to a particle size of 0.5 mm				
Integrated Temperature Sensor	PT 100 (NTC10k optional) at base plate					
Note	Specify exact wavelength needed with your order					
	See General User Information!					

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* At internal temperature sensor





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