JENOPTIK

New: Fiber-Coupled Diode Lasers

cw, passively cooled, high brightness

JOLD-75-FC-11

Design 215720224

Features:

- High optical output power of 75 W cw
- Fiber core diameter: 105 µm
- NA 0.15
- Cooling via mounting plate

Applications:

- Pumping of fiber lasers
- Material processing

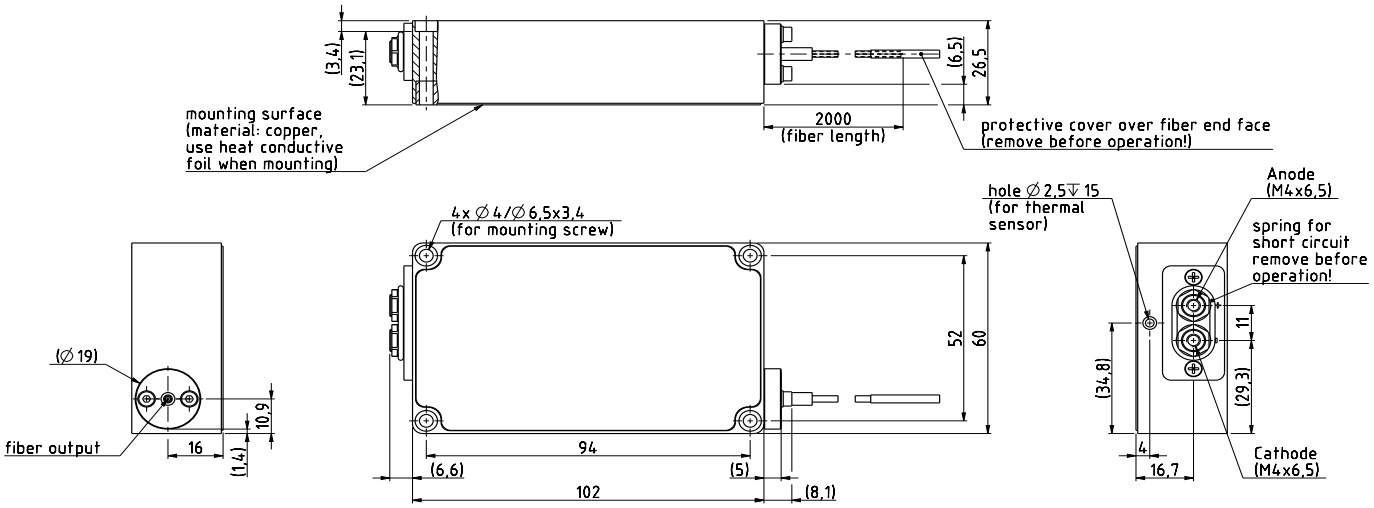
New: Fiber-Coupled Diode Lasers

cw, passively cooled, high brightness

Specifications (Start of Life)

Product	JOLD-75-FC-11, Design 215720224			
Operation Mode	cw, pulsed			
Maximum Optical Output Power	75	75	75	W
Center Wavelength at 25 °C	915	938	958	nm
Center Wavelength Variation at 25 °C	5	5	5	nm
Typical Spectral Bandwidth (FWHM)	5	5	5	nm
Maximum Spectral Bandwidth (FWHM)	7	7	7	nm
Typical Operation Current	11	11	11	A
Maximum Operation Current	12	12	12	A
Typical Threshold Current	0.6	0.6	0.6	A
Maximum Threshold Current	0.8	0.8	0.8	A
Typical Slope	7.3	7.3	7.3	W/A
Minimum Slope	6.5	6.5	6.5	W/A
Typical Operating Voltage	16.5	16.5	16.5	V
Maximum Operating Voltage	20.0	20.0	20.0	V
Fiber Core Diameter	105 µm			
Cladding Diameter	125 µm			
Numerical Aperture	NA 0.15			
Fiber Length	2 m			
Fiber Far End	Cleaved pigtail			
Minimum Fiber Bending Radius	50 mm			
Power Inside the Cladding	< 5%, cladding mode stripper integrated			
Fiber Laser Feedback Protection	1030 ... 1100 nm, integrated filter			
Anode Connector	M4, Socket cap screws ISO 4762 (case isolated)			
Cathode Connector	M4, Socket cap screws ISO 4762 (case isolated)			
Operation Conditions	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			
Diode Laser Operating Temperature	15 ... 30 °C at temperature sensor			
Temperature Sensor	Hole for thermal sensor, 2.5 mm diameter			
Storage Temperature	-25 ... 70 °C			
	See General User Information!			

Options on request: transport fiber 105 µm, NA 0.22 (NA 0.15 effective), Design 215720224



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