

976nm, Conduction-Cooled Single Bar, Narrow Linewidth, Fiber-Coupled Module

Features

- Narrow linewidth of <math><0.5\text{nm}</math>
- High coupling efficiency
- High brightness
- Conduction-cooled
- Sealed housing
- Standard fiber coupling (HP-SMA) for 200 μm and 400 μm , NA 0.22

Optional Accessories

- Monitor photo diode



Device Specification

Optical Parameters ¹	Units		
Center Wavelength Range ³	nm		976
Center Wavelength Tolerance	nm		± 0.6
Output Power ²	W	30	40
Spectral Width (FWHM)	nm		<math><0.5</math>
Slope Efficiency	W/A	>0.5	>0.5
Wavelength Temp. Coefficient	nm/ $^{\circ}\text{C}$		$\sim 0.01^5$

Fiber Parameters			
Numerical Aperture	NA		0.22
Fiber Core Diameter	μm	200	400
Fiber Connector		HP-SMA 905 with Free Standing Fiber Tips	

Electrical Parameters ¹			
Power Conversion Efficiency	%	>35	>35
Threshold Current (I_{TH})	A	<7.5	<7.5
Operating Current (I_{OP})	A	<55	<70
Operating Voltage per Bar (V_{OP})	V		<1.9

Thermal Parameters			
Operating Temperature ^{3, 4}	$^{\circ}\text{C}$		+20 to +30
Storage Temperature ⁴	$^{\circ}\text{C}$		0 to +55
Recommended Heatsink Capacity	W	>80	>100

¹Data at 25 $^{\circ}\text{C}$ cold plate temperature, unless otherwise stated.

²Reduced lifetime if used above nominal operating conditions.

³Others available upon request.

⁴A non-condensing environment is required for storage and operation below the ambient dew point.

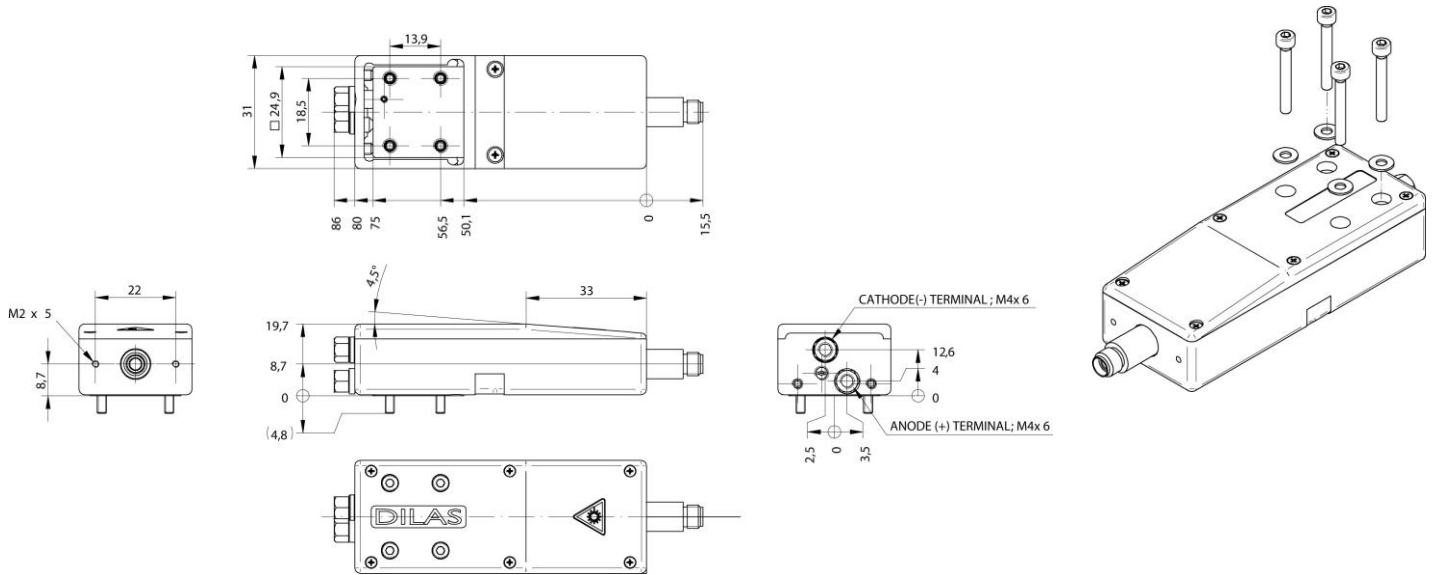
⁵Within operating temperature $\pm 3^{\circ}\text{C}$.

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DILAS
The diode laser company.

Package Dimension

Module M1F-SS2.4



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For complete details, please contact your local DILAS sales representative or visit our website at www.DILAS.com.

Europe
DILAS Diodenlaser GmbH
Galileo-Galilei-Straße 10
55129 Mainz
Germany
Phone: +49 (0)6131 9226 0
Fax: +49 (0)6131 9226 257
Email: sales@DILAS.de

North America
DILAS Diode Laser, Inc.
9070 South Rita Road
Suite 1500
Tucson, AZ 85747
Phone: +1 (520) 232-3480
Fax: +1 (520) 232-3499
Email: sales@DILAS-INC.com

China & Taiwan
DILAS Diodenlaser GmbH
China Sales Office
Room 206, Sunplus Technology, Bldg. 2
No. 1077 Zu Chongzhi Road
Hi-Tech Park, Shanghai 201203,
P.R. China
Phone: +86 (0) 21-6855-2216
Fax: +86 (0) 21-5027-3793
Email: sales@dilas-china.com.cn