

806.5nm, 400µm, Conduction-Cooled Single Bar, Narrow Linewidth, Fiber-Coupled Module

Features

- Narrow linewidth of <0.5nm
- High coupling efficiency
- High brightness
- Conduction-cooled
- Sealed housing
- Standard fiber coupling (HP-SMA) for 400µm, NA 0.22

Optional Accessories

- Monitor photo diode



Device Specification

Optical Parameters ¹	Units	
Center Wavelength Range ³	nm	806.5
Center Wavelength Tolerance	nm	±0.6
Output Power ²	W	40
Spectral Width (FWHM)	nm	<0.5
Slope Efficiency	W/A	>0.6
Wavelength Temp. Coefficient	nm/°C	~0.01 ⁵

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

Electrical Parameters ¹		
Power Conversion Efficiency	%	>35
Threshold Current (I_{TH})	A	<11
Operating Current (I_{OP})	A	<70
Operating Voltage per Bar (V_{OP})	V	<1.9

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

¹Data at 25°C cold plate temperature, unless otherwise stated.

²Reduced lifetime if used above nominal operating conditions.

³Others available upon request.

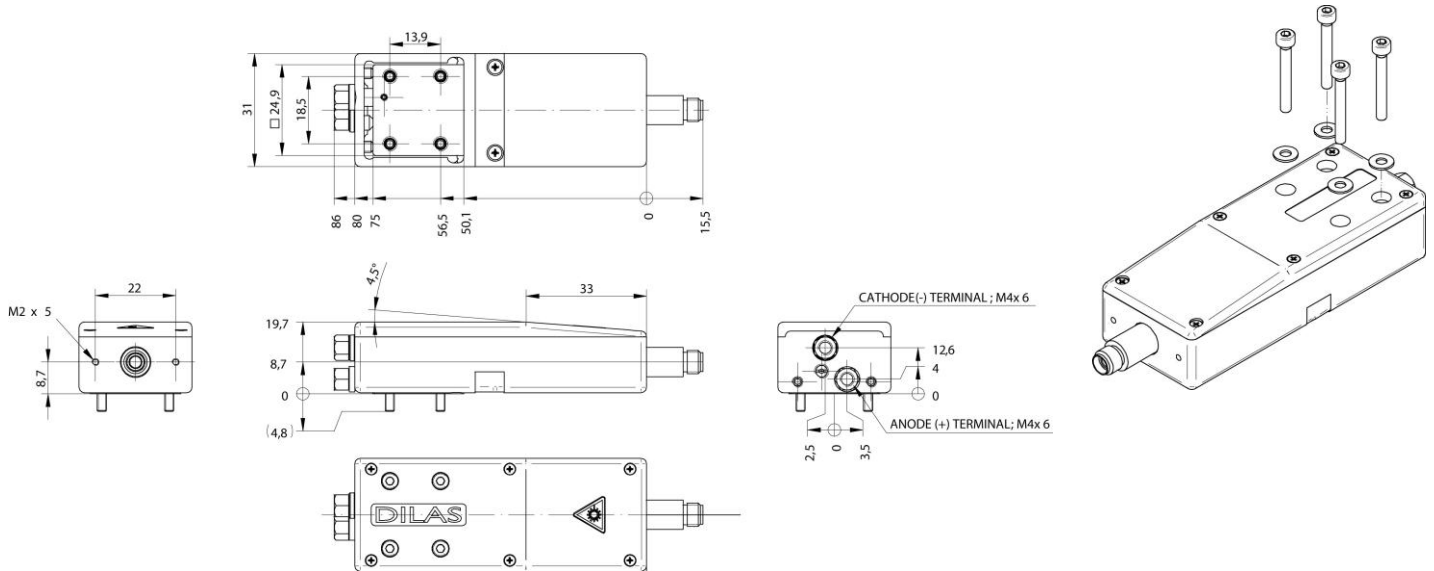
⁴A non-condensing environment is required for storage and operation below the ambient dew point.

⁵Within operating temperature ±3°C.

806.5nm, 400µm, Conduction-Cooled Single Bar, Narrow Linewidth, Fiber-Coupled Module

Package Dimension

Module M1F-SS2.4



©2012 DILAS. All rights reserved. DILAS reserves the right to change products specifications without notice. For handling precautions, please reference the general handling instruction manual.

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