

Narrow Line Width
200µm or 400µm, 25W, 808nm, 976nm, 981nm
Conduction-Cooled Single Bar, Fiber-Coupled Module



Features

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

Optional Accessories

- Monitor photo diode



Device Specification

| Optical Parameters ¹ | Units | 808 | 976 | 981 |
|---|-------|--------------------|--------------------|--------------------|
| Center Wavelength Range ³ | nm | 808 | 976 | 981 |
| Center Wavelength Tolerance | nm | ±0.8 | ±0.8 | ±0.8 |
| Output Power per Bar ² | W | 25 | 25 | 25 |
| Spectral Width (FWHM) | nm | ≤0.5 | ≤0.5 | ≤0.5 |
| Slope Efficiency per Bar | W/A | >0.5 | >0.5 | >0.5 |
| Wavelength Temp. Coefficient ³ | nm/°C | ~0.01 ⁵ | ~0.01 ⁵ | ~0.01 ⁵ |

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

| Electrical Parameters ¹ | | 808 | 976 | 981 |
|--|---|------|------|------|
| Power Conversion Efficiency | % | ≥30 | ≥30 | ≥30 |
| Threshold Current (I _{TH}) | A | ≤8 | <7.5 | <7.5 |
| Operating Current (I _{OP}) | A | ≤55 | ≤55 | ≤55 |
| Operating Voltage per Bar (V _{OP}) | V | <1.9 | <1.9 | <1.9 |

| Thermal Parameters | | 808 | 976 | 981 |
|---------------------------------------|----|------------|-----|-----|
| Operating Temperature ^{3, 4} | °C | +20 to +30 | | |
| Storage Temperature ⁴ | °C | 0 to +55 | | |
| Recommended Heatsink Capacity | W | ≥70 | | |

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.

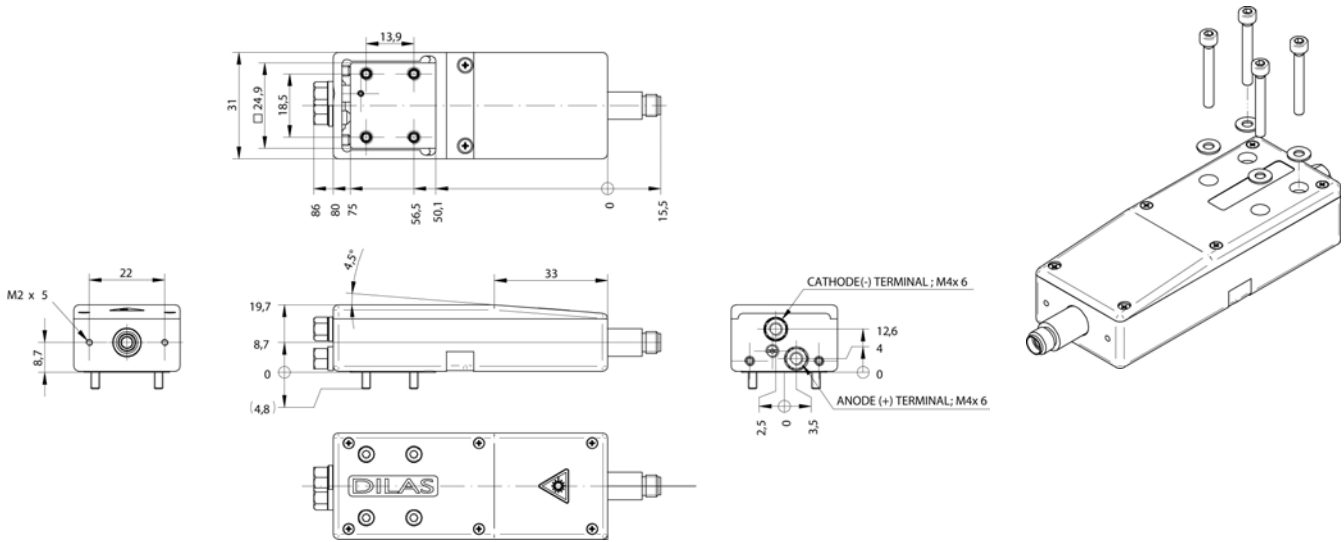
⁵Within operating temperature ±3°C

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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 (6131) 9226 0
 Fax: +49 (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) 232-3484
 Fax: +1 (520) 232-3499
 Email: sales@DILAS-INC.com

Asia
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