

# 808nm, Conduction-Cooled Single Bar Diode Laser Module



## Features

- High collimator efficiency
- Very low divergence in fast and slow axis
- Sealed housing
- Various wavelengths available



## Device Specification

| Optical <sup>1</sup>                        | Units  |           |
|---------------------------------------------|--------|-----------|
| Center Wavelength Range <sup>3</sup>        | nm     | 808       |
| Center Wavelength Tolerance                 | nm     | ±3        |
| Output Power <sup>2</sup>                   | W (CW) | 35        |
| Spectral Width (FWHM)                       | nm     | 3         |
| Slope Efficiency                            | W/A    | ≥1.0      |
| Fast- Axis Divergence <sup>3</sup>          | mrad   | 10        |
| Slow-Axis Divergence <sup>3</sup>           | mrad   | 10        |
| Wavelength Temp. Coefficient                | nm/°C  | ~0.27     |
| Electrical Parameters <sup>1</sup>          |        |           |
| Power Conversion Efficiency                 | %      | >45       |
| Threshold Current ( $I_{TH}$ )              | A      | <10       |
| Operating Current ( $I_{OP}$ )              | A      | >45       |
| Operating Voltage ( $V_{OP}$ )              | V      | <1.9      |
| Thermal Parameters <sup>1</sup>             |        |           |
| Operating Temperature Range <sup>3, 4</sup> | °C     | +20 to 30 |
| Storage Temperature Range <sup>4</sup>      | °C     | 0 to 55   |
| Recommended Cooling Capacity                | W      | ≥70       |

<sup>1</sup>Data at 20°C cold plate temperature.

<sup>2</sup>Reduced lifetime if used above nominal operating conditions.

<sup>3</sup>Others available upon request.

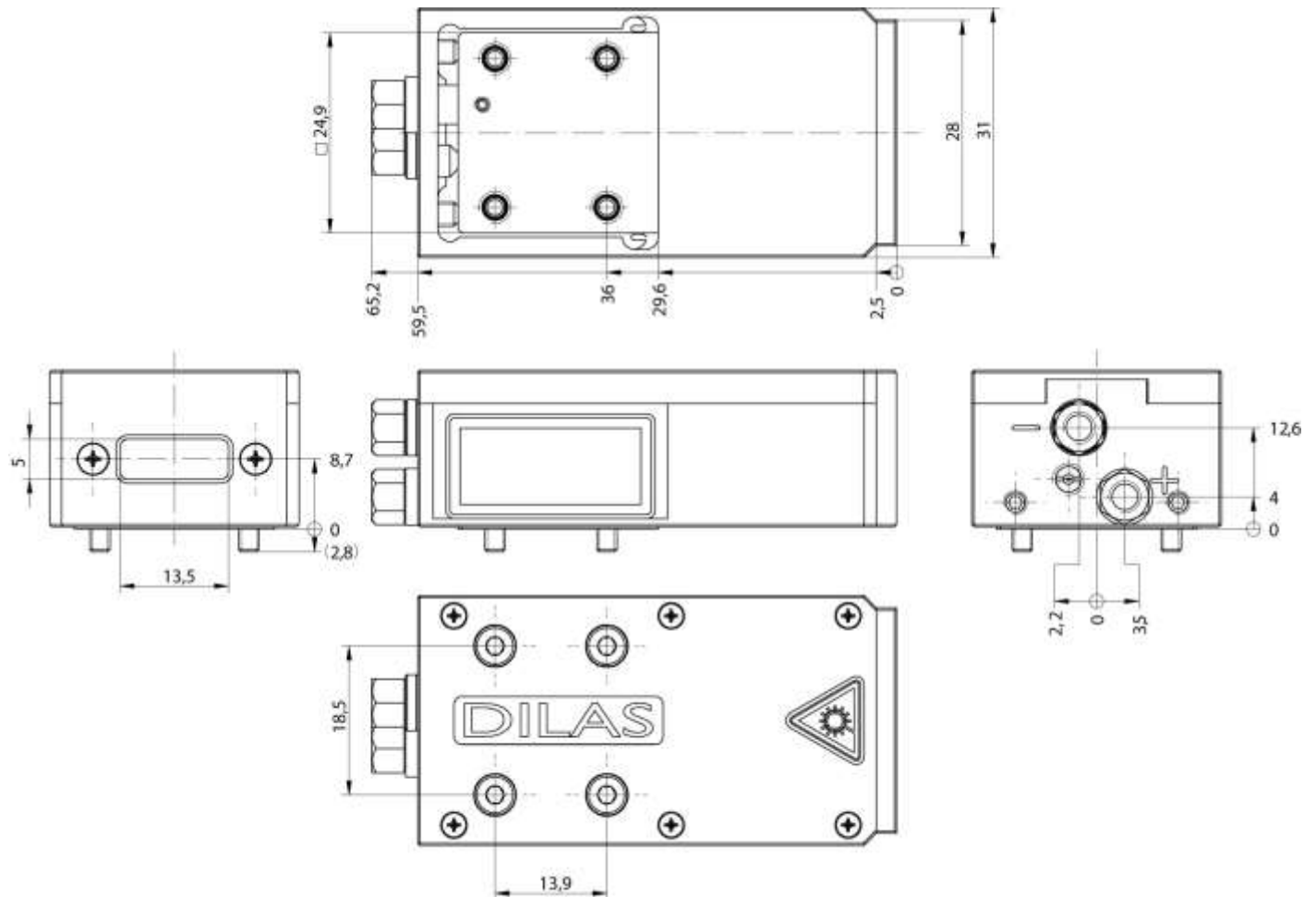
<sup>4</sup>A non-condensing environment is required for storage and operation below the ambient dew point.

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## Package Dimension

### Module M1B-SS4.3



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