

1550nm, 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 ¹	Units	QCW ⁵
Center Wavelength Range ³	nm	1550
Center Wavelength Tolerance	nm	±20
Output Power ²	W (QCW)	70
Spectral Width (FWHM)	nm	<18
Slope Efficiency	W/A	>0.40
Fast- Axis Divergence ³	mrاد	10
Slow-Axis Divergence ³	mrاد	15
Wavelength Temp. Coefficient	nm/°C	~0.62

Electrical Parameters ¹		
Power Conversion Efficiency	%	>21
Threshold Current (I_{TH})	A	<12
Operating Current (I_{OP})	A	<165
Operating Voltage (V_{OP})	V	<2.1

Thermal Parameters ¹		
Operating Temperature Range ^{3, 4}	°C	+20 to 30
Storage Temperature Range ⁴	°C	0 to 55
Recommended Cooling Capacity	W	>20

¹Data at 20°C cold plate temperature.

²Reduced lifetime if used above nominal operating conditions.

³Others available upon request.

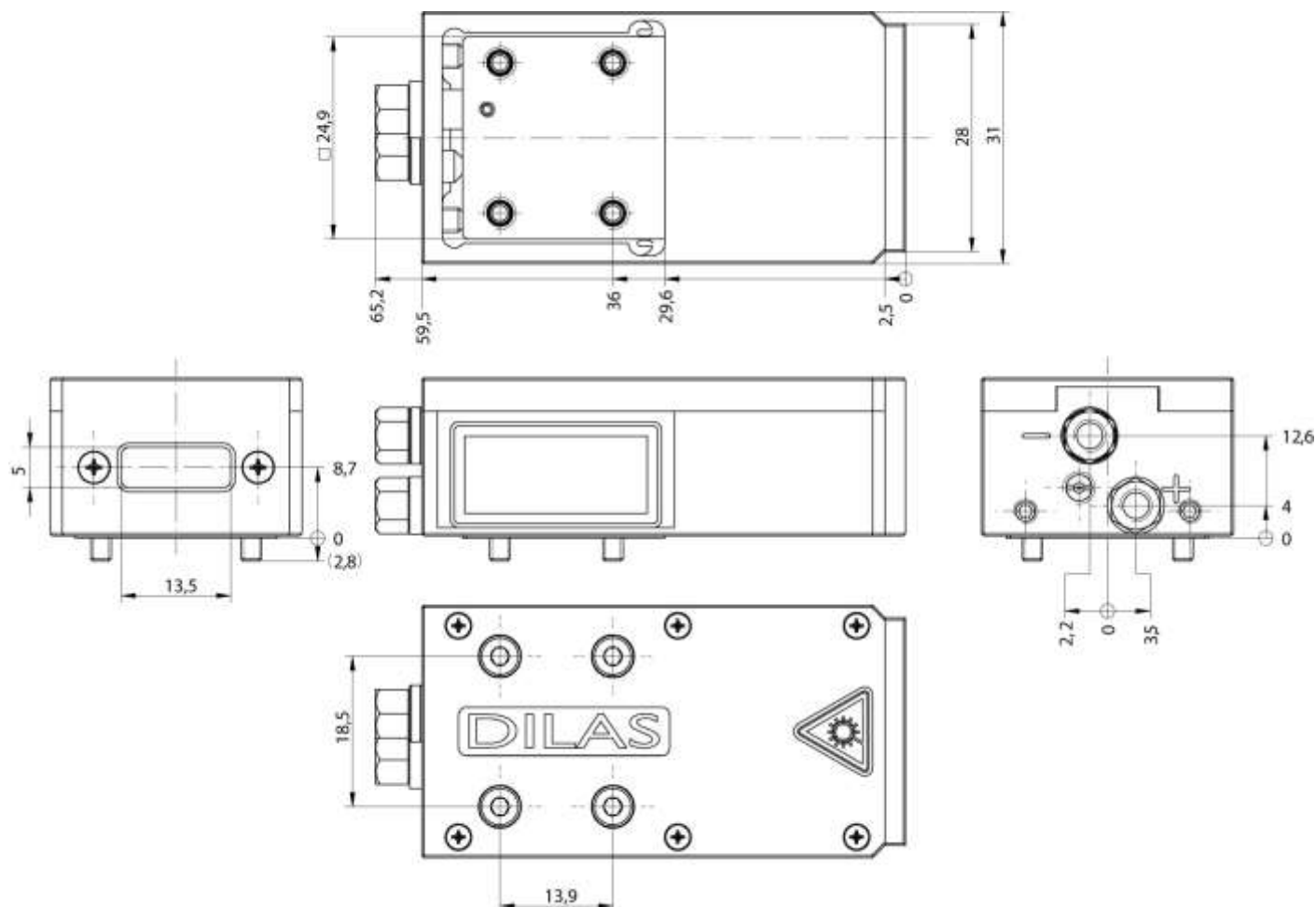
⁴A non-condensing environment is required for storage and operation below the ambient dew point.

⁵Depending on pulse width and duty cycle.

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Package Dimension

Module M1B-SS4.3



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