

808nm, Conduction-Cooled Single Bar, Narrow Linewidth, Fiber-Coupled Module

Features

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

Optional Accessories

- Monitor photo diode



Device Specification

Optical Parameters ¹		Units	
Center Wavelength Range ³	nm	808	
Center Wavelength Tolerance	nm	±0.6	
Output Power ²	W	30	40
Spectral Width (FWHM)	nm	<0.5	
Slope Efficiency	W/A	>0.5	>0.6
Wavelength Temp. Coefficient	nm/°C	~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	%	>30	>35
Threshold Current (I _{TH})	A	<9	<11
Operating Current (I _{OP})	A	<55	<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	>80	>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.

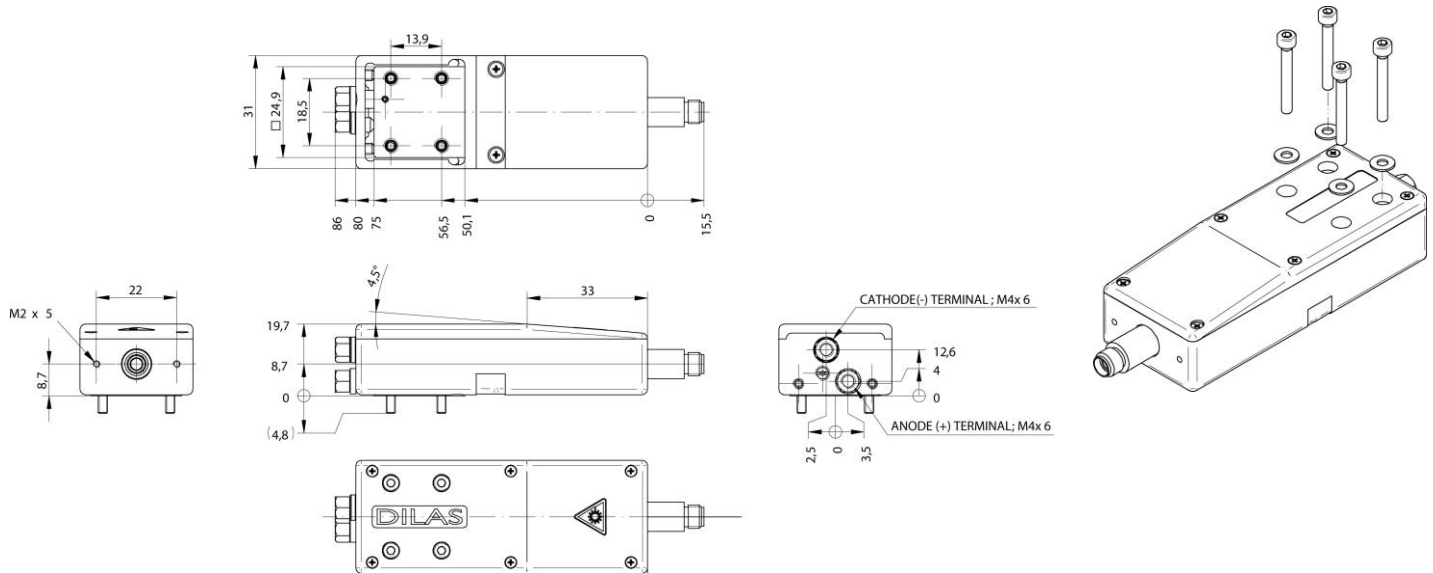
⁵Within operating temperature $\pm 3^{\circ}\text{C}$.

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DILAS
The diode laser company.

Package Dimension

Module M1F-SS2.4



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