

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.

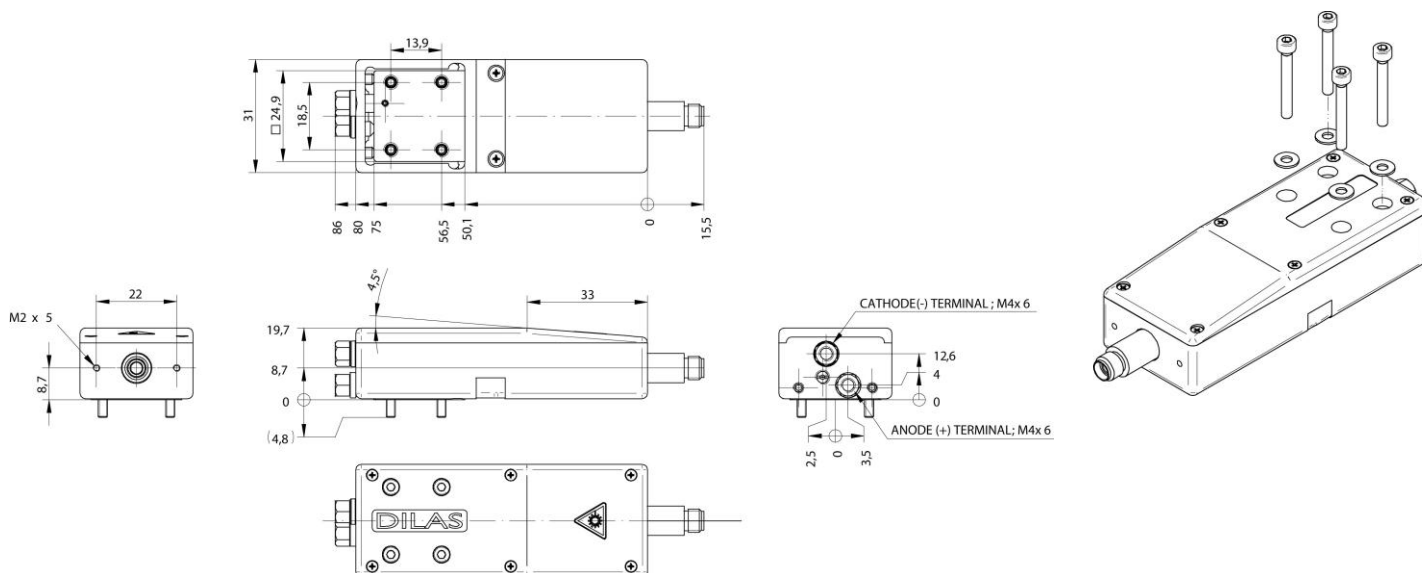
⁵Within operating temperature ±3°C.

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DILAS
The diode laser company.

Package Dimension

Module M1F-SS2.4



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