

# 793nm, 400 $\mu$ m, 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 400 $\mu$ m, NA 0.22

## Optional Accessories

- Monitor photo diode



## Device Specification

Optical Parameters <sup>1</sup>	Units	
Center Wavelength Range <sup>3</sup>	nm	793
Center Wavelength Tolerance	nm	$\pm 0.6$
Output Power <sup>2</sup>	W	30
Spectral Width (FWHM)	nm	<0.5
Slope Efficiency	W/A	>0.5
Wavelength Temp. Coefficient	nm/ $^{\circ}$ C	$\sim 0.01^5$

Fiber Parameters		
Numerical Aperture	NA	0.22
Fiber Core Diameter	$\mu$ m	400
Fiber Connector		HP-SMA 905 with Free Standing Fiber Tips

Electrical Parameters <sup>1</sup>		
Power Conversion Efficiency	%	>35
Threshold Current ( $I_{TH}$ )	A	<9
Operating Current ( $I_{OP}$ )	A	<55
Operating Voltage per Bar ( $V_{OP}$ )	V	<1.9

Thermal Parameters		
Operating Temperature <sup>3, 4</sup>	$^{\circ}$ C	+20 to +30
Storage Temperature <sup>4</sup>	$^{\circ}$ C	0 to +55
Recommended Heatsink Capacity	W	>80

<sup>1</sup>Data at 25 $^{\circ}$ C cold plate temperature, unless otherwise stated.

<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.

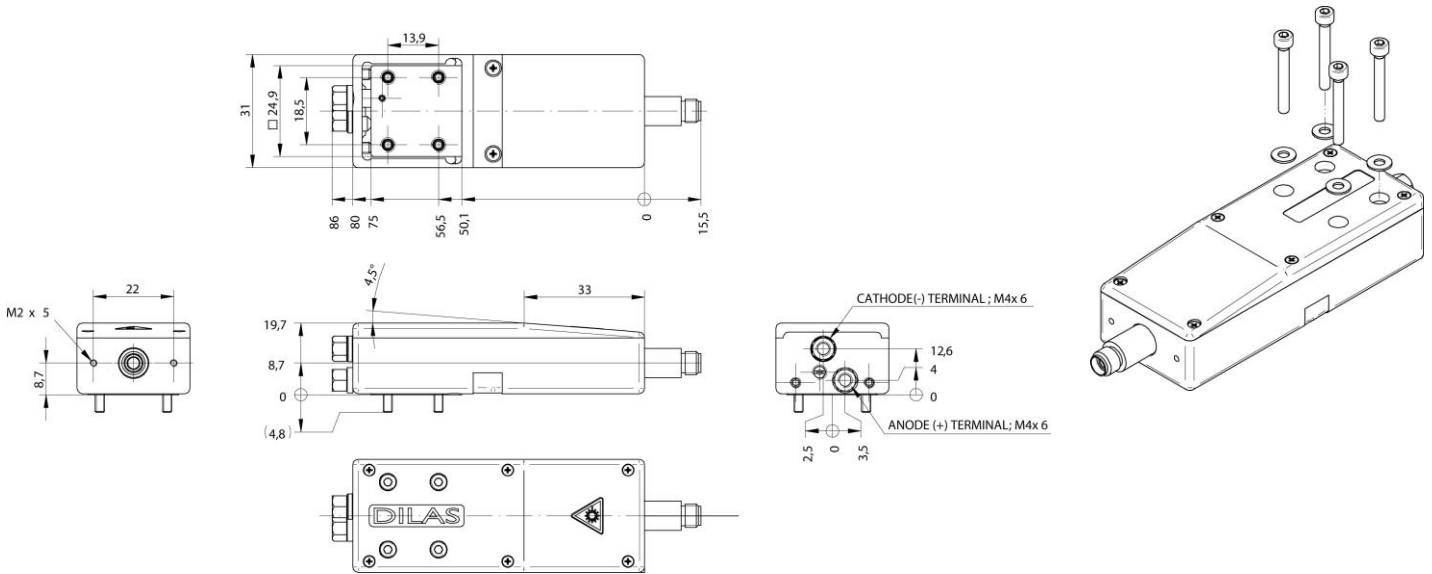
<sup>5</sup>Within operating temperature  $\pm 3^{\circ}$ C.

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**DILAS**  
The diode laser company.

## Package Dimension

### Module M1F-SS2.4



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