

# 800µm, 100W, QCW Conduction Cooled Single Bar Fiber Coupled Module

## Features

- QCW operation
- High coupling efficiency
- High brightness
- Sealed housing
- Standard fiber coupling (HP-SMA) for 800µm NA 0.22 for QCW



## Device Specification

Optical <sup>1</sup>	Units	QCW	QCW
Center Wavelength Range <sup>3</sup>	nm	940	808
Center Wavelength Tolerance	nm	±3	±5
Output Power <sup>2, 5</sup>	W	100 <sup>5</sup>	100 <sup>5</sup>
Spectral Width (FWHM)	nm	5	5
Slope Efficiency	W/A	≥0.7	≥0.7
Wavelength Temp. Coefficient <sup>3</sup>	nm/°C	~0.31	~0.27

Fiber Parameters			
Numerical Aperture	NA		0.22
Fiber Core Diameter	µm		800
Fiber Connector		HP-SMA 905 with Free Standing Fiber Tips	

Electrical Parameters <sup>1</sup>			
Power Conversion Efficiency	%	≥35	≥35
Threshold Current (I <sub>TH</sub> )	A	≤15	≤15
Operating Current (I <sub>OP</sub> )	A	120	120
Operating Voltage (V <sub>OP</sub> )	V	<1.9	<1.9

Thermal Parameters			
Operating Temperature <sup>3, 4</sup>	°C	+20 to +30	
Storage Temperature <sup>4</sup>	°C	0 to +55	
Recommended Heatsink Capacity	W	≥70	

<sup>1</sup>Data at 25°C cold plate temperature.

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

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

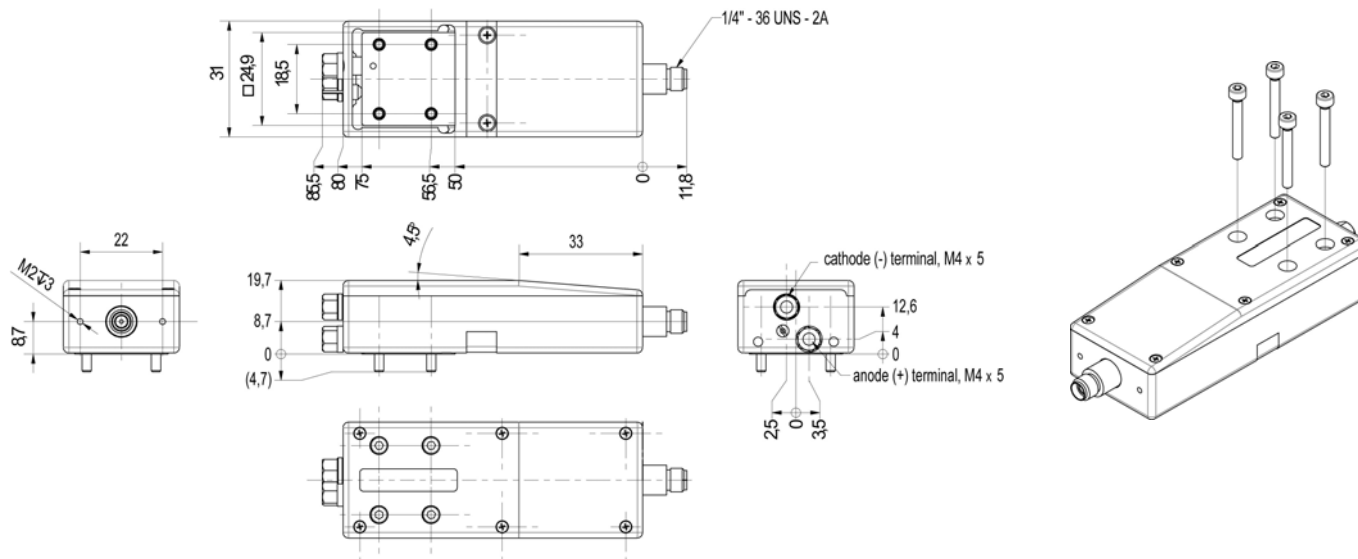
<sup>4</sup>A non-condensing environment is required for storage and operation below the ambient dew point.

<sup>5</sup>QCW, 1msec 10Hz.

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## Package Dimension

### Module M1F-SS2.1



DILAS products specifications are subject to change without notice. For handling precautions, please reference the general handling instruction manual.

For complete details, please contact your local DILAS sales representative or visit our website at [www.DILAS.com](http://www.DILAS.com).

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