

808nm, 400μm, Conduction-Cooled, Single Bar, Fiber-Coupled Module

Features

- High coupling efficiency
- High brightness
- Sealed housing
- Standard fiber coupling (HP-SMA) for 400μm NA 0.22



Device Specification

Optical Parameters ¹	Units				QCW
Center Wavelength Range ³	nm	808	808	808	808
Center Wavelength Tolerance	nm	±3	±3	±3	±5
Output Power ²	W	30	40	50	100 ⁵
Spectral Width (FWHM)	nm	4	4	4	5
Slope Efficiency	W/A	>0.85	>0.85	>0.85	>0.85
Wavelength Temp. Coefficient	nm/°C	~0.27	~0.27	~0.27	~0.27

Fiber Parameters

Numerical Aperture ⁶	NA	0.22
Fiber Core Diameter	μm	400
Fiber Connector	HP-SMA 905 with Free Standing Fiber Tips	

Electrical Parameters¹

Power Conversion Efficiency	%	>40	>40	>40	≥40
Threshold Current (I _{TH})	A	<8	<11	<11	<9
Operating Current (I _{OP})	A	<45	<55	<70	<120
Operating Voltage (V _{OP})	V	<1.9	<1.9	<1.9	<1.9

Thermal Parameters

Operating Temperature ^{3, 4}	°C	+20 to +30	+20 to +30	+20 to +35	+20 to +30
Storage Temperature ⁴	°C	0 to +55	0 to +55	0 to +55	0 to +55
Recommended Heatsink Capacity	W	>70	>70	>70	>70

Optional

True unpolarized output is available as an option.

¹Data at 25°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.

⁵QCW, 1msec 10Hz.

⁶Low numerical aperture option available at 0.12 for 800μm.

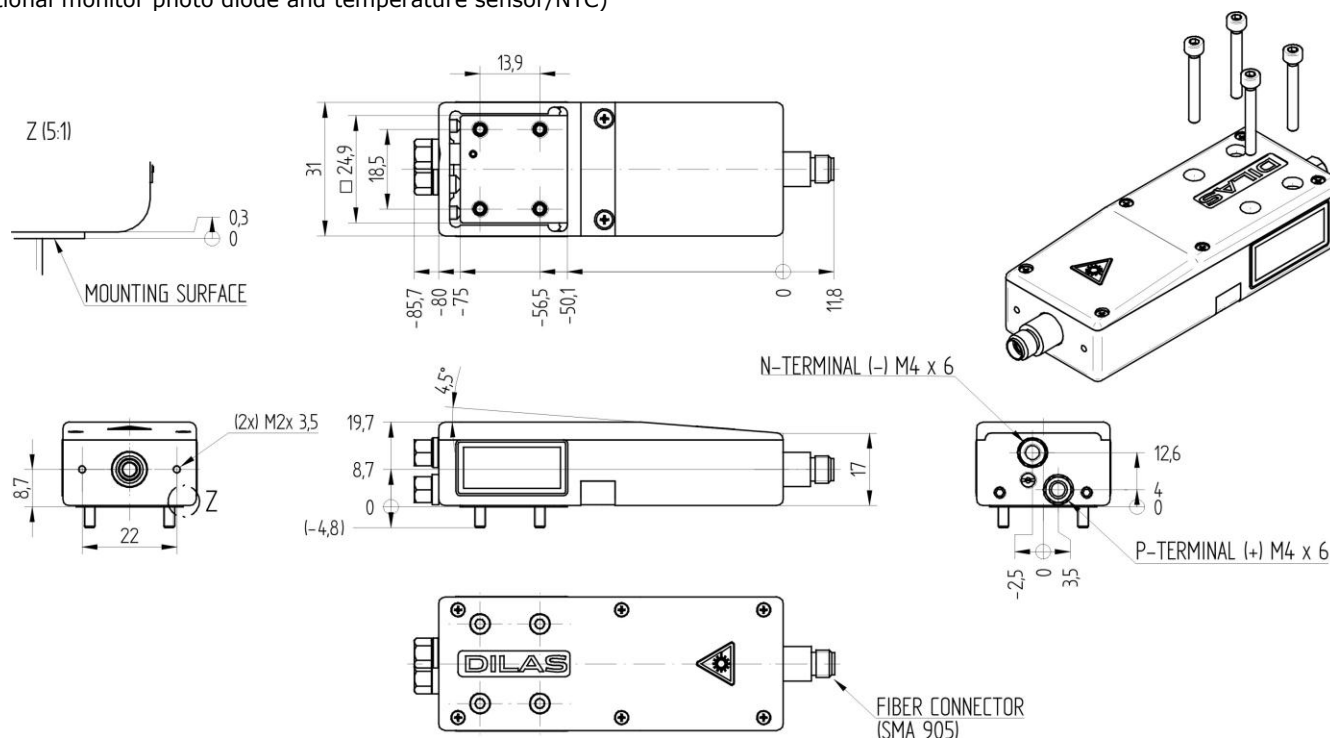
808nm, 400µm, Conduction-Cooled, Single Bar, Fiber-Coupled Module

DILAS
The diode laser company.

Package Dimension

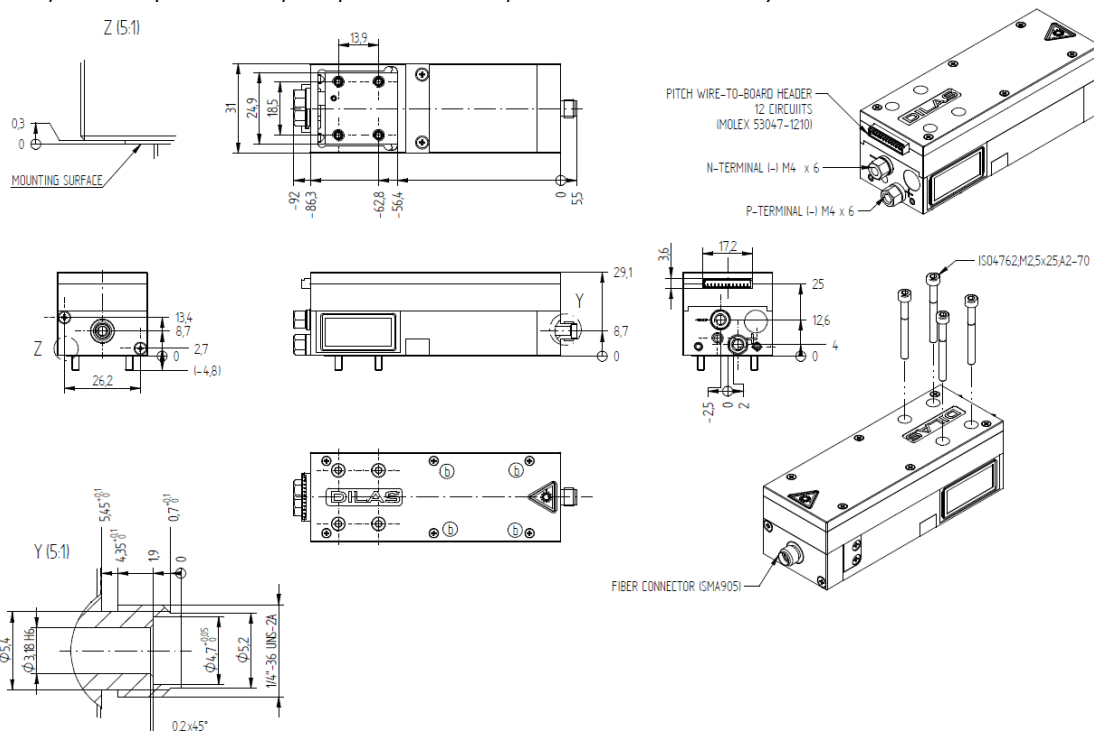
Module M1F-SS2.1

(Optional monitor photo diode and temperature sensor/NTC)



Module M1F-SS5.2

(Includes pointer, monitor photo diode, temperature sensor/NTC and fiber interlock)



©2012 DILAS. All rights reserved. DILAS reserves the right to change product specifications 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.

Europe
DILAS Diodenlaser GmbH
Galileo-Galilei-Straße 10
55129 Mainz
Germany
Phone: +49 (6131) 9226 0
Fax: +49 (6131) 9226 257
Email: sales@DILAS.de

North America
DILAS Diode Laser, Inc.
9070 South Rita Road
Suite 1500
Tucson, AZ 85747
Phone: +1 (520) 232-3484
Fax: +1 (520) 232-3499
Email: sales@DILAS-INC.com

Asia
DILAS Diodenlaser GmbH
China Sales Office
Room 206, Sunplus Technology, Bldg. 2
No. 1077 Zu Chongzhi Road
Hi-Tech Park, Shanghai 201203,
P.R. China
Phone: +86 (0) 21-6855-2216
Fax: +86 (0) 21-5027-3793
Email: sales@dilas-china.com.cn