

1470nm, 200μm, Conduction-Cooled, Single Bar, Fiber-Coupled Module

Features

- High coupling efficiency
- High brightness
- Sealed housing
- Standard fiber coupling (HP-SMA) for 200μm NA 0.22



Device Specification

Optical Parameters ¹	Units	
Center Wavelength Range ³	nm	1470
Center Wavelength Tolerance	nm	±20
Output Power ²	W	12
Spectral Width (FWHM)	nm	<12
Slope Efficiency	W/A	>0.3
Wavelength Temp. Coefficient	nm/°C	~0.58

Fiber Parameters		
Numerical Aperture	NA	0.22
Fiber Core Diameter	μm	200
Fiber Connector	HP-SMA 905 with Free Standing Fiber Tips	

Electrical Parameters ¹		
Power Conversion Efficiency	%	>17
Threshold Current (I_{TH})	A	<11
Operating Current (I_{OP})	A	<60
Operating Voltage (V_{OP})	V	<1.4

Thermal Parameters		
Operating Temperature ^{3, 4}	°C	+20 to +30
Storage Temperature ⁴	°C	0 to +55
Recommended Heatsink Capacity	W	>90

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.

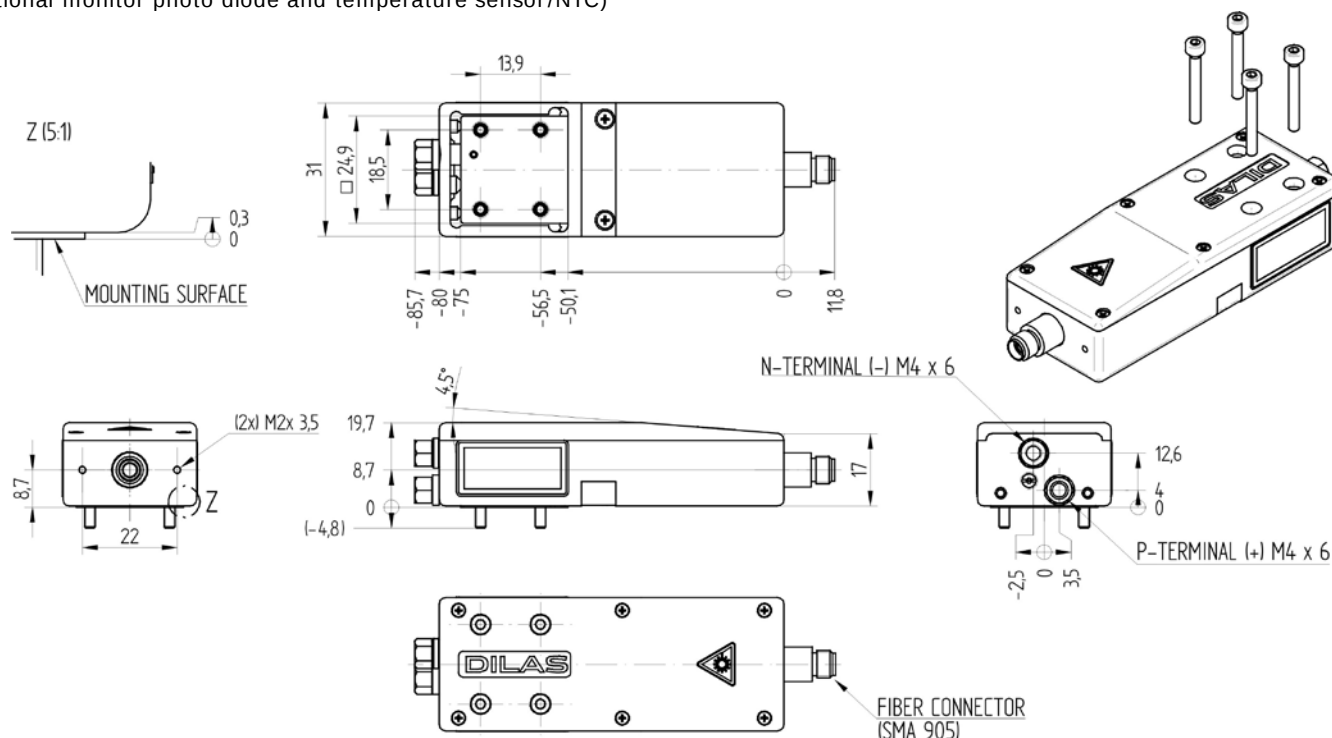
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DILAS
The diode laser company.

Package Dimension

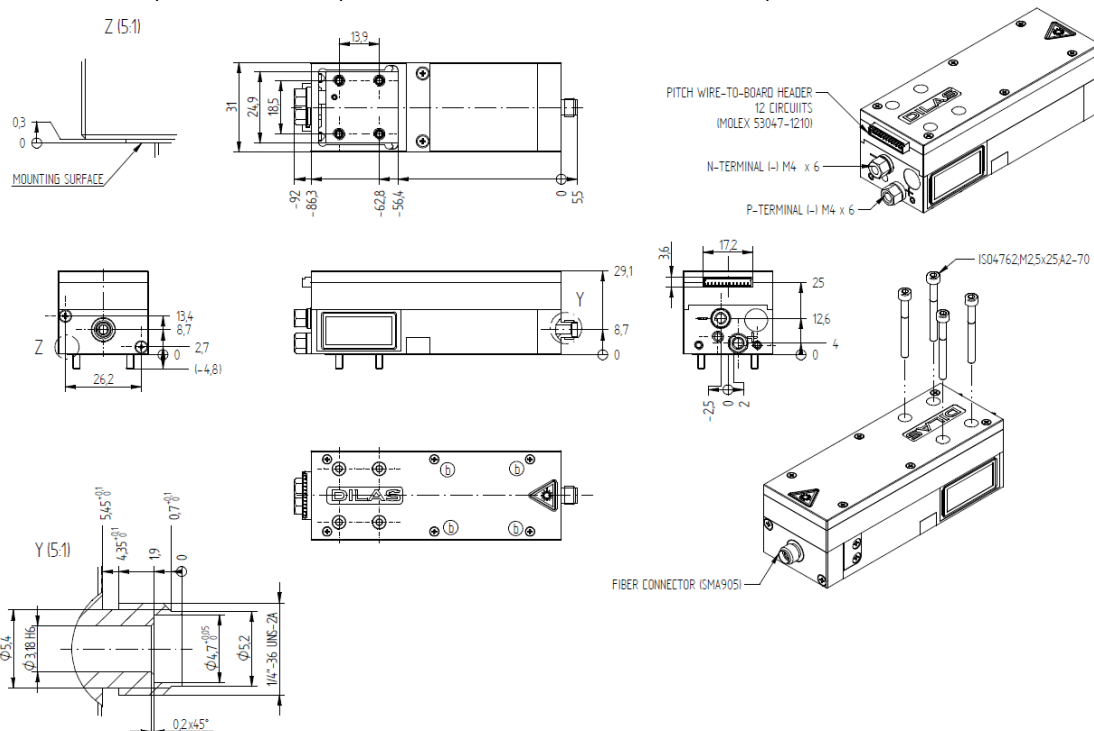
Module M1F-SS2.1

(Optional monitor photo diode and temperature sensor/NTC)



Module M1F-SS5.2

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



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