940nm, 400µm, Conduction-Cooled, Single Bar, Fiber-Coupled Module

DILAS
The diode laser company.

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	940	940	940
Center Wavelength Tolerance	nm	±3	±3	±3
Output Power[2]	W	30	50	100[5]
Spectral Width (FWHM)	nm	5	5	5
Slope Efficiency	W/A	>0.85	>0.85	>0.7
Wavelength Temp. Coefficient	nm/°C	~0.34	~0.34	~0.34
Fiber Parameters				
Numerical Aperture[6]	NA		0.22	
Fiber Core Diameter	µm		400	
Fiber Connector			HP-SMA 905 with Free Standing Fiber Tips	
Electrical Parameters[1]				
Power Conversion Efficiency	%	>45	>45	≥45
Threshold Current (I_{TH})	A	<8	<8	<8
Operating Current (I_{OP})	A	<50	<70	<120
Opreating Voltage (V_{OP})	V	<1.9	<1.9	<1.9
Thermal Parameters				
Operating Temperature[3, 4]	°C		+20 to +30	
Storage Temperature[4]	°C		0 to +55	
Recommended Heatsink Capacity	W		>70	

Optional

True unpolarized output is available as an option.

[1]Data at 25°C cold plate temperature.
[2]Reduced lifetime if used above nominal operating conditions.
[3]Others available upon request.
[4]A non-condensing environment is required for storage and operation below the ambient dew point.
[5]QCW, 1msec 10Hz.6
[6]Low numerical aperture option available at 0.12 for 800µm.

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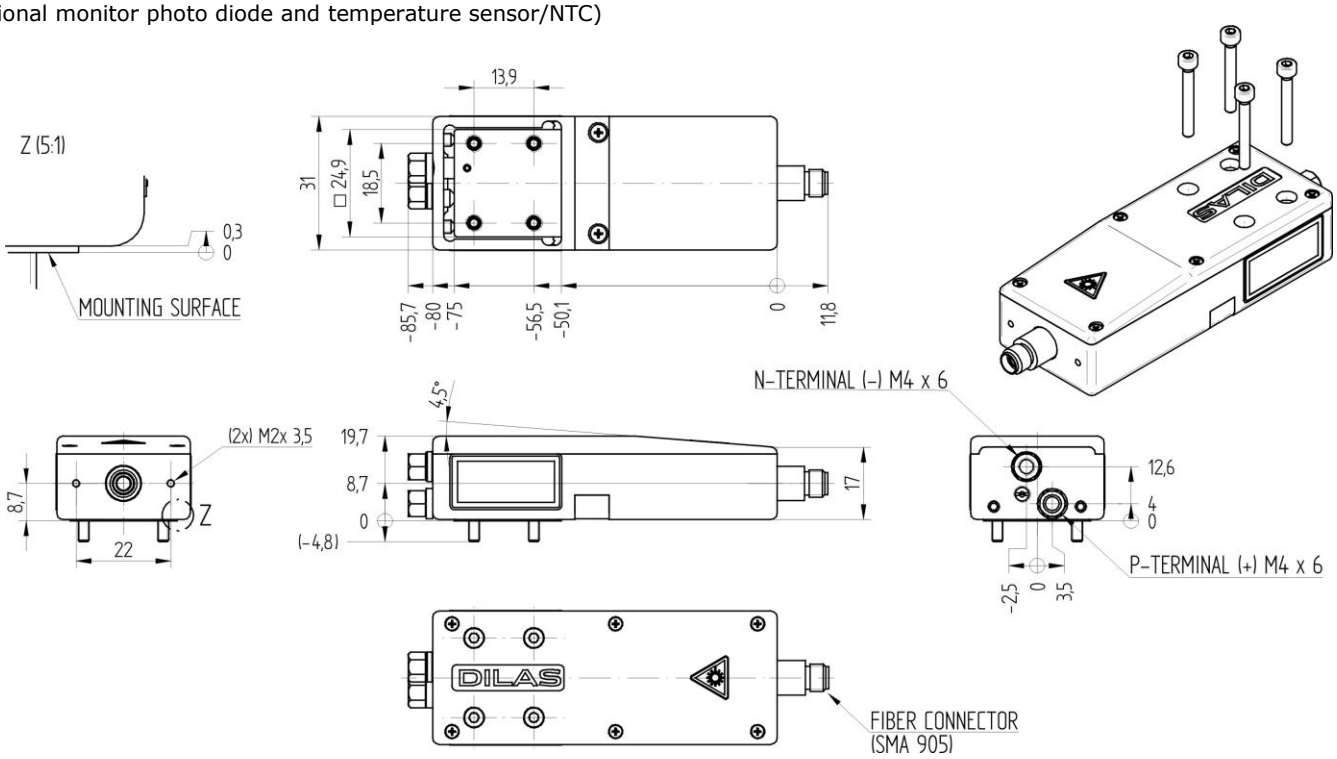
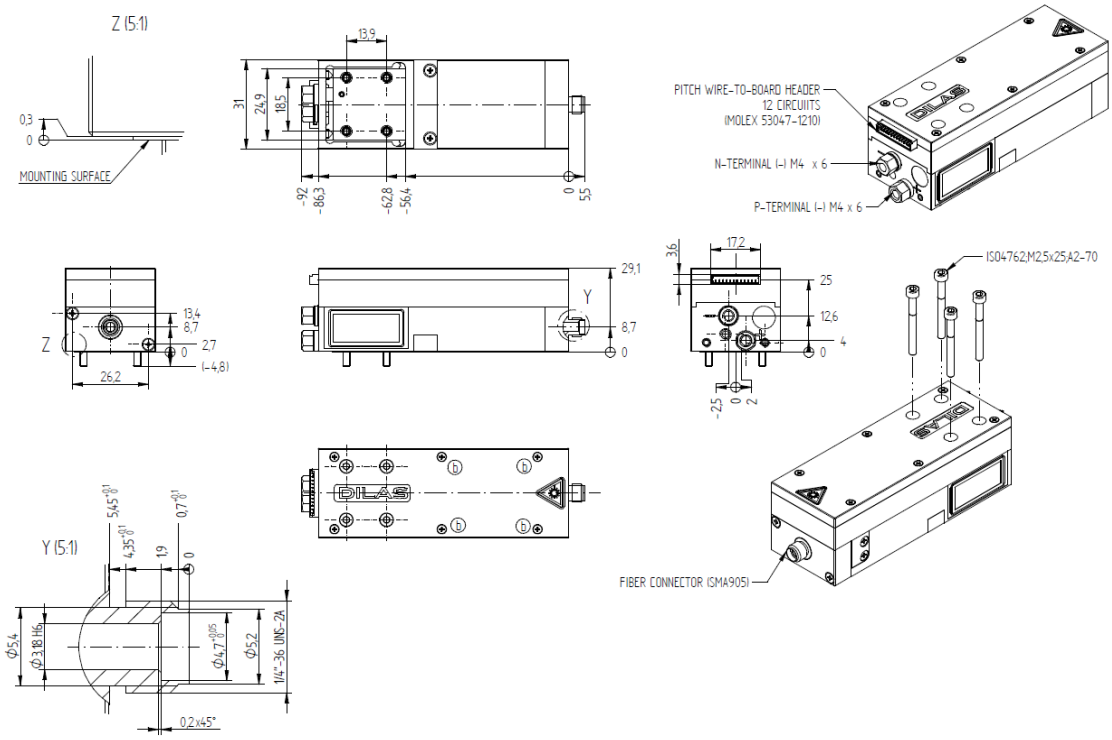
Package Dimension

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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