

# 1470nm, 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 <sup>1</sup>      | Units |       |
|--------------------------------------|-------|-------|
| Center Wavelength Range <sup>3</sup> | nm    | 1470  |
| Center Wavelength Tolerance          | nm    | ±20   |
| Output Power <sup>2</sup>            | W     | 15    |
| 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                                       | 400  |
| Fiber Connector     | HP-SMA 905 with Free Standing Fiber Tips |      |

| Electrical Parameters <sup>1</sup> |   |      |
|------------------------------------|---|------|
| Power Conversion Efficiency        | % | >18  |
| Threshold Current ( $I_{TH}$ )     | A | <11  |
| Operating Current ( $I_{OP}$ )     | A | <60  |
| Operating Voltage ( $V_{OP}$ )     | V | <1.4 |

| 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  | >90        |

## Optional

True unpolarized output is available as an option.

<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.

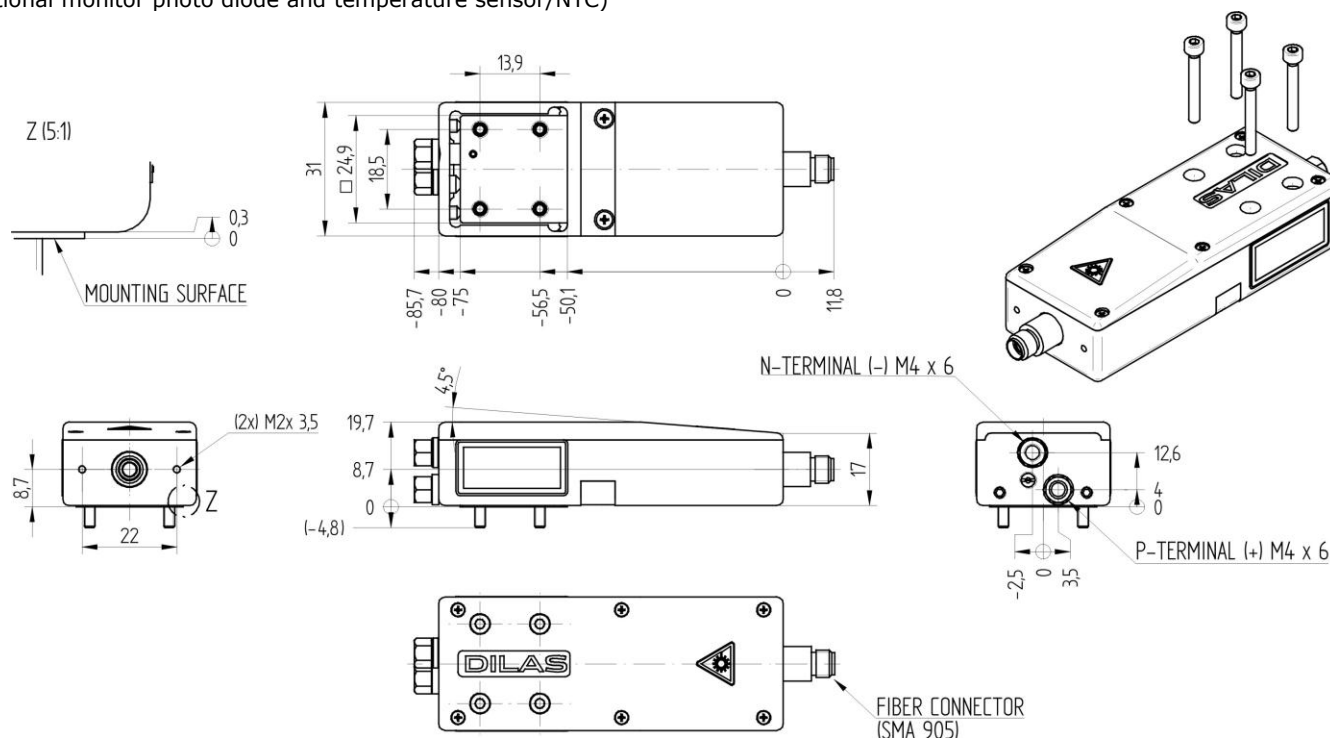
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The diode laser company.

## Package Dimension

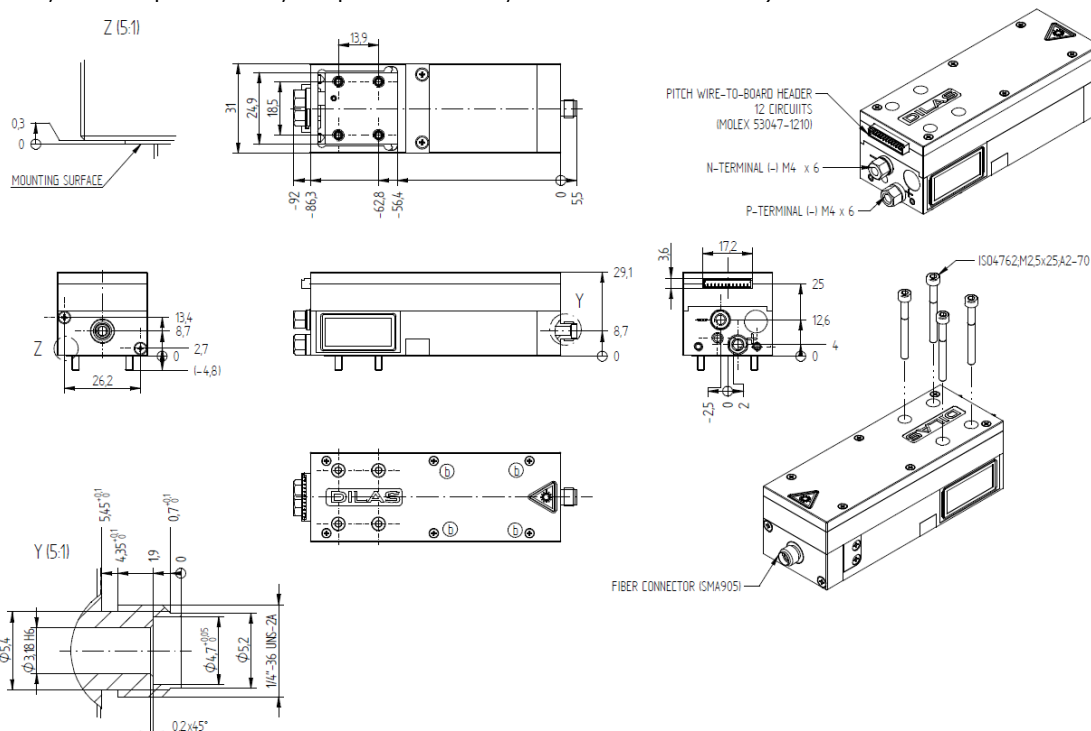
### Module M1F-SS2.1

(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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