

808nm, 200µm, Conduction-Cooled, Fiber-Coupled, Two-Bar Module

Features

- Single wavelength
- High coupling efficiency
- Thermal interface by base-plate
- Water manifold for water cooling

Optional Accessories

- Integrated pointer laser and power meter
- Integrated temperature sensor
- Fiber interlock
- TE adapter for thermo electric cooling
- Exchangeable protection window



Device Specification

| Optical Parameters ¹ | Units | |
|--------------------------------------|-------|-------|
| Center Wavelength Range ³ | nm | 808 |
| Center Wavelength Tolerance | nm | ±3 |
| Output Power ² | W | 70 |
| Spectral Width (FWHM) | nm | <4 |
| Slope Efficiency | W/A | >1.6 |
| Wavelength Temp. Coefficient | nm/°C | ~0.27 |

| 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 | % | >40 |
| Threshold Current (I_{TH}) | A | <10 |
| Operating Current (I_{OP}) | A | <60 |
| Operating Voltage (V_{OP}) | V | <4 |

| Thermal Parameters | | |
|---|-----|------------|
| Operating Temperature ^{2, 3, 4} (Cooling Plate) | °C | +20 to +25 |
| Operating Temperature ^{2, 3, 4} (Diode Laser Module) | °C | +30 to +35 |
| Storage Temperature ^{3,4} | °C | 0 to +55 |
| Coolant Flow Rate | l/h | 150 to 200 |
| Operating Water Temperature | °C | +20 to +25 |
| Maximum Particle Size | µm | <10 |
| Recommended Cooling Capacity | W | >160 |

¹Data at 25°C cold plate temperature, unless otherwise stated.

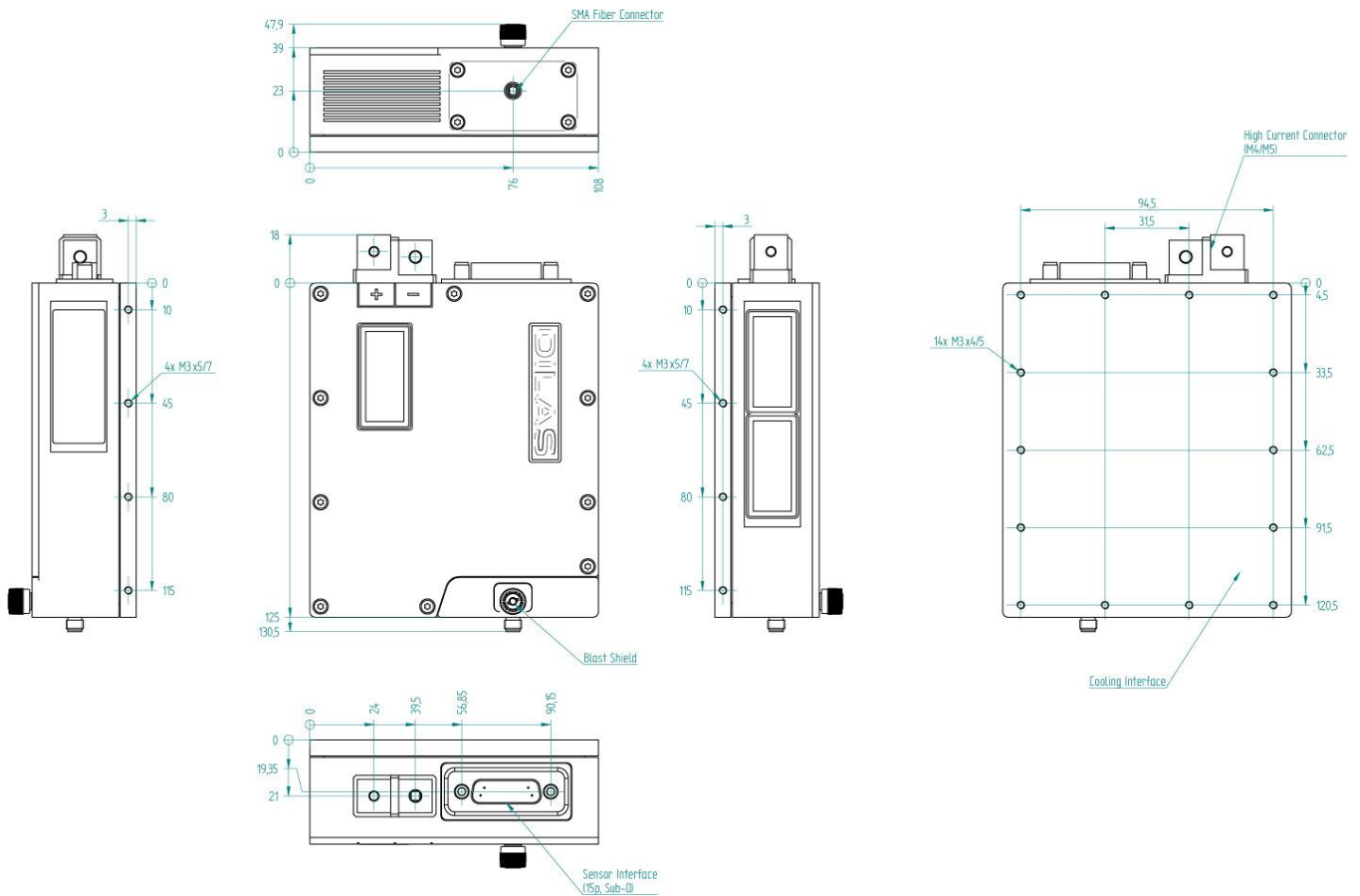
²Reduced lifetime if used above nominal operating conditions.

³Others available upon request.

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

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Package Dimension



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