

9xxnm, 200 μ m, 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	9xx
Center Wavelength Tolerance	nm	± 3
Output Power ²	W	80
Spectral Width (FWHM)	nm	<4
Slope Efficiency	W/A	>1.6
Wavelength Temp. Coefficient	nm/ $^{\circ}$ C	~ 0.34

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

Electrical Parameters ¹		
Power Conversion Efficiency	%	>40
Threshold Current (I_{TH})	A	<7.5
Operating Current (I_{OP})	A	<60
Operating Voltage (V_{OP})	V	<4

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

¹Data at 25 $^{\circ}$ C cold plate temperature, unless otherwise stated.

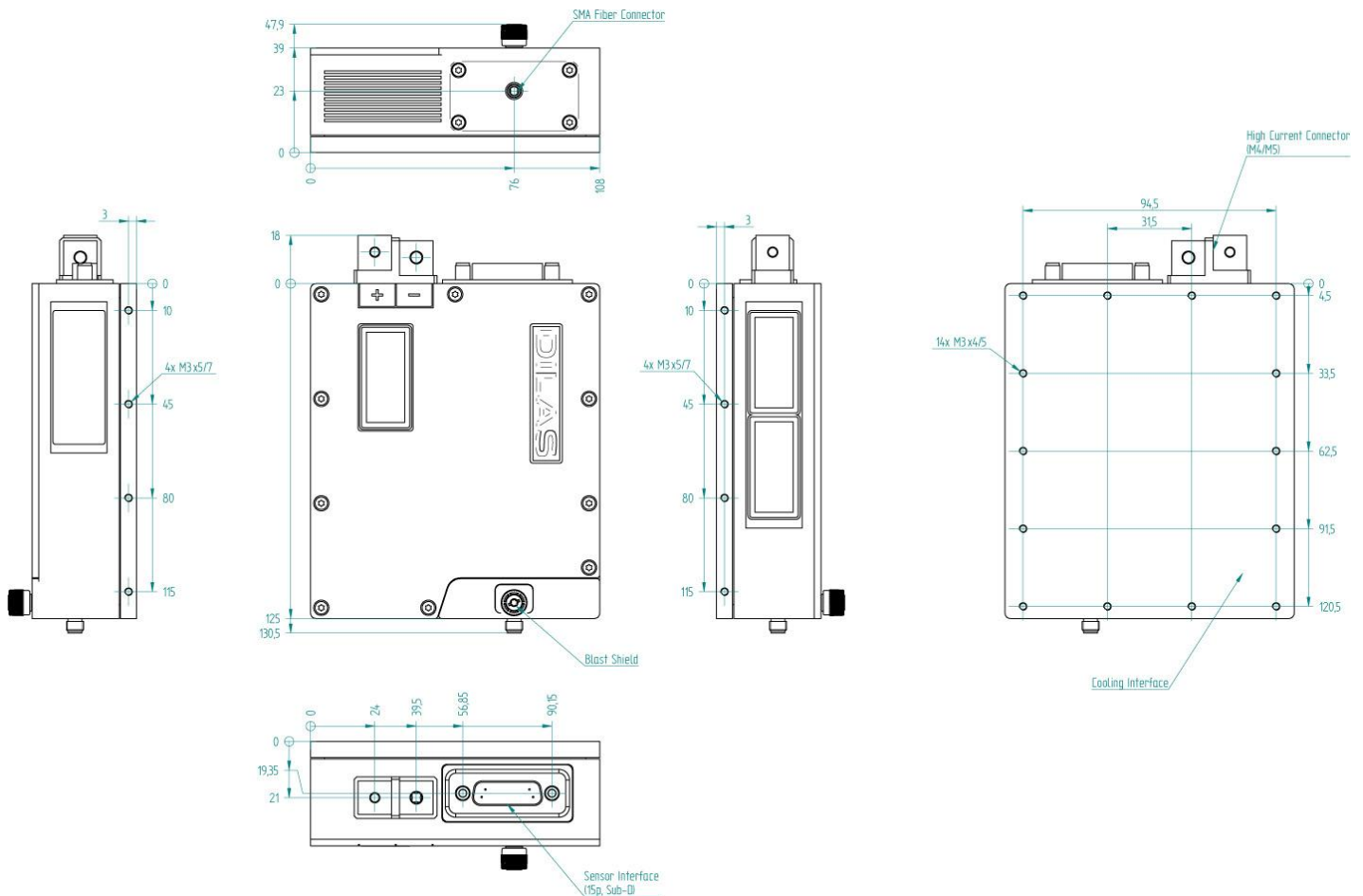
²Reduced lifetime if used above nominal operating conditions.

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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