

976nm, 200µm, Conduction-Cooled, Narrow Linewidth, Fiber-Coupled Multi-Bar Module

Features

- Narrow linewidth of <1nm
- High coupling efficiency
- High brightness
- Conduction-cooled
- Sealed housing

Optional Accessories

- Integrated pointer laser
- Integrated power meter
- Integrated NTC temperature sensor
- Fiber detection sensor



Device Specification

Optical Parameters ¹	Units		
Center Wavelength Range ³	nm	976	976
Center Wavelength Tolerance	nm	±0.6	±0.6
Output Power ²	W	120	180
Spectral Width (FWHM)	nm	<1	<1
Slope Efficiency	W/A	>2.8	>4.2
Wavelength Temp. Coefficient	nm/°C	~0.01 ⁵	~0.01 ⁵

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

Electrical Parameters ¹			
Power Conversion Efficiency	%	>35	>35
Threshold Current (I _{TH})	A	<7.5	<7.5
Operating Current (I _{OP})	A	<55	<55
Operating Voltage (V _{OP})	V	<8	<12

Thermal Parameters			
Operating Temperature ^{3, 4}	°C		+20 to +30
Storage Temperature ⁴	°C		0 to +55
Recommended Heatsink Capacity	°C	>320	>480

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

²Reduced lifetime if used above nominal operating conditions.

³Others available upon request.

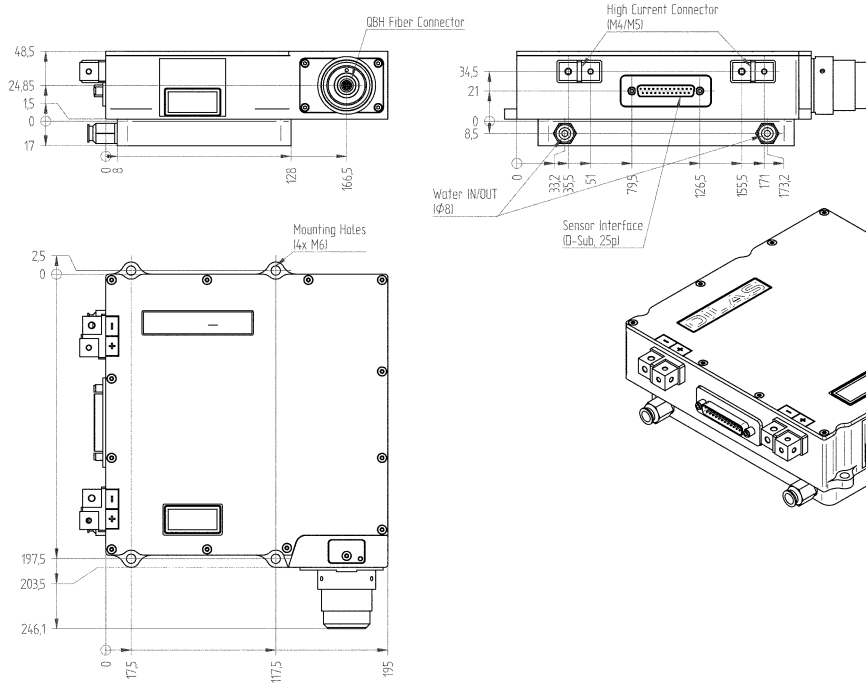
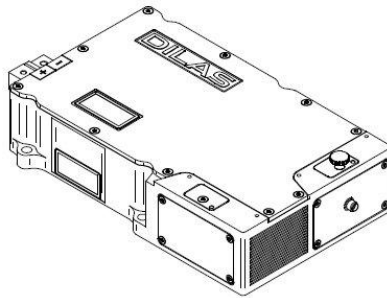
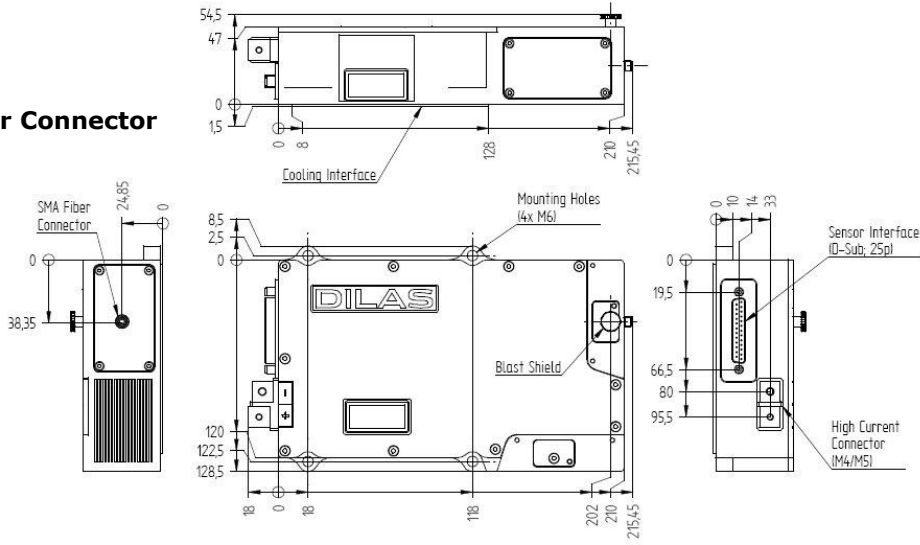
⁴A non-condensing environment is required for storage and operation below the ambient dew point.

⁵Within operating temperature ±3°C

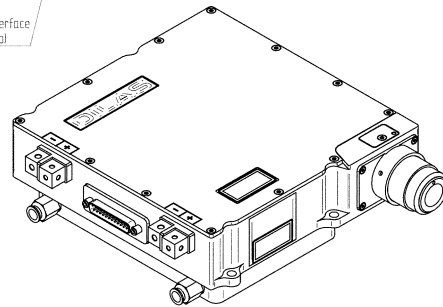
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Package Dimension

HP-SMA 905 Fiber Connector



QPH Fiber Connector



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