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 Cooling Capacity	W	>320	>480

[1]Data at 25°C cold plate temperature, unless otherwise stated.
[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]Within operating temperature ±3°C

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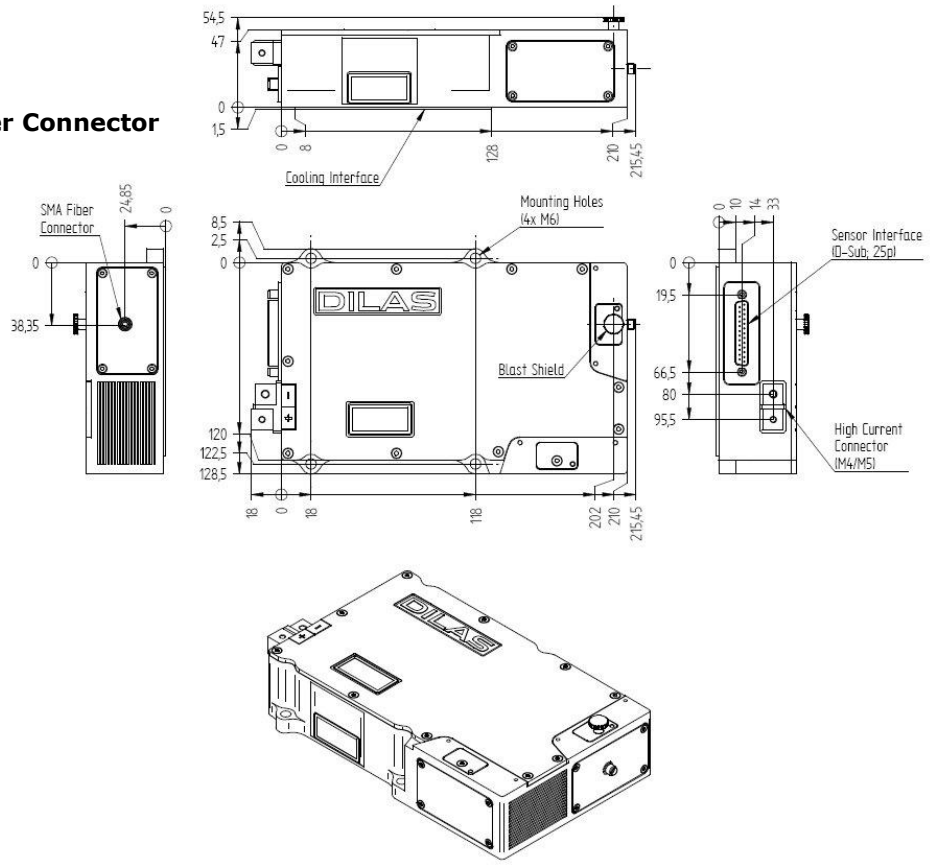
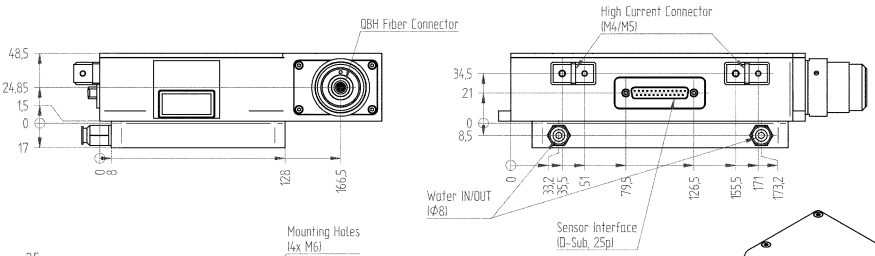
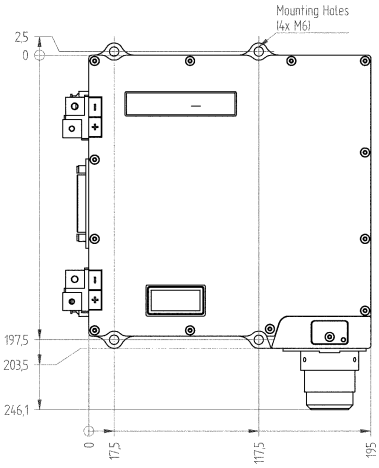
Package Dimension

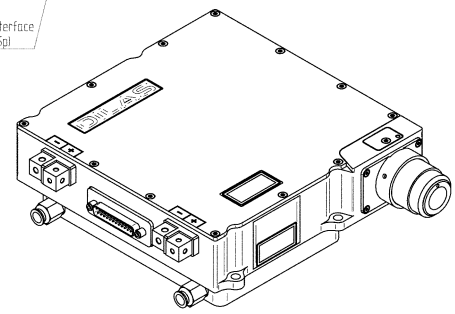
HP-SMA 905 Fiber Connector



QPH Fiber Connector







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