976nm, 270W, 225µm Ø, Fiber-Coupled, Multi-Bar Module Based Conduction-Cooled, Tailored Mini-Bars

Features
- Conduction-cooled diode laser bars
- Single wavelength
- High coupling efficiency
- Scalable output power
- Back reflection filter

Optional Accessories
- Wavelength stabilization

Device Specification

Optical Parameters[1]	**Units**	
Center Wavelength[2]	nm	976
Wavelength Tolerance	nm	±3
Output Power[3]	W	270
Spectral Width (FWHM)	nm	<5
Slope Efficiency	W/A	>7.5
Fiber Parameters		
Fiber Connector		Fixed Pigtail Fiber
Fiber Core Diameter	µm	225/240
Numerical Aperture	NA	0.22
Electrical Parameters[1]		
Power Conversion Efficiency	%	>51
Threshold Current (I_{TH})	A	<3
Operating Current (I_{OP})	A	<40
Operating Voltage (U_{OP})	V	<15
Thermal Parameters[4]		
Operating Temperature [3]	°C	+20 to +25
Storage Temperature[4]	°C	+5 to +60
Coolant Flow Rate[5]	l/h	>150
Water Temperature	°C	+20 to +25
Purity		Tap Water
Mechanical Parameters		
Size		See Drawing
Weight (Without Water Manifold)	kg	~1

[1]Data at 25°C cold plate temperature, unless otherwise stated.
[2]Others available upon request.
[3]Reduce lifetime if used above nominal operating conditions.
[4]A non-condensing environment is required for storage and operation below the ambient dew point.
[5]It's essential for correct functioning of the module the cooling water temperature and flow rate are monitored as an interlock for interrupting the laser current immediately if a value exceeds or falls below the given parameter.

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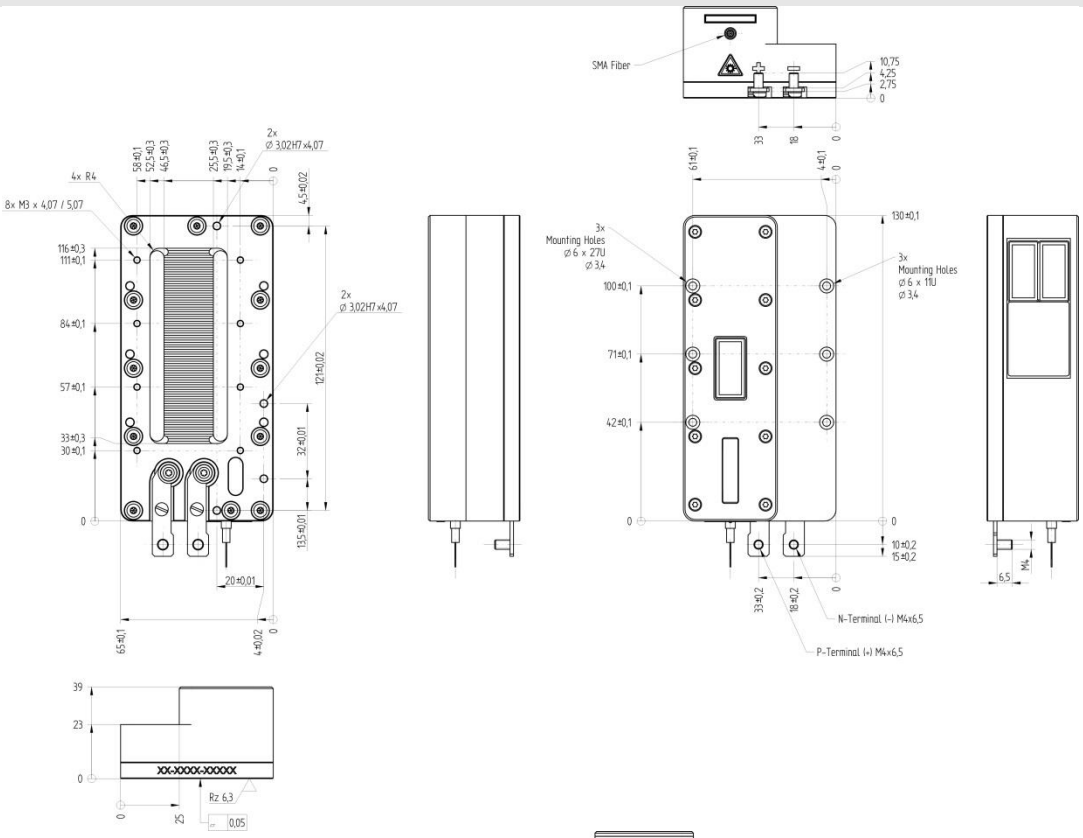
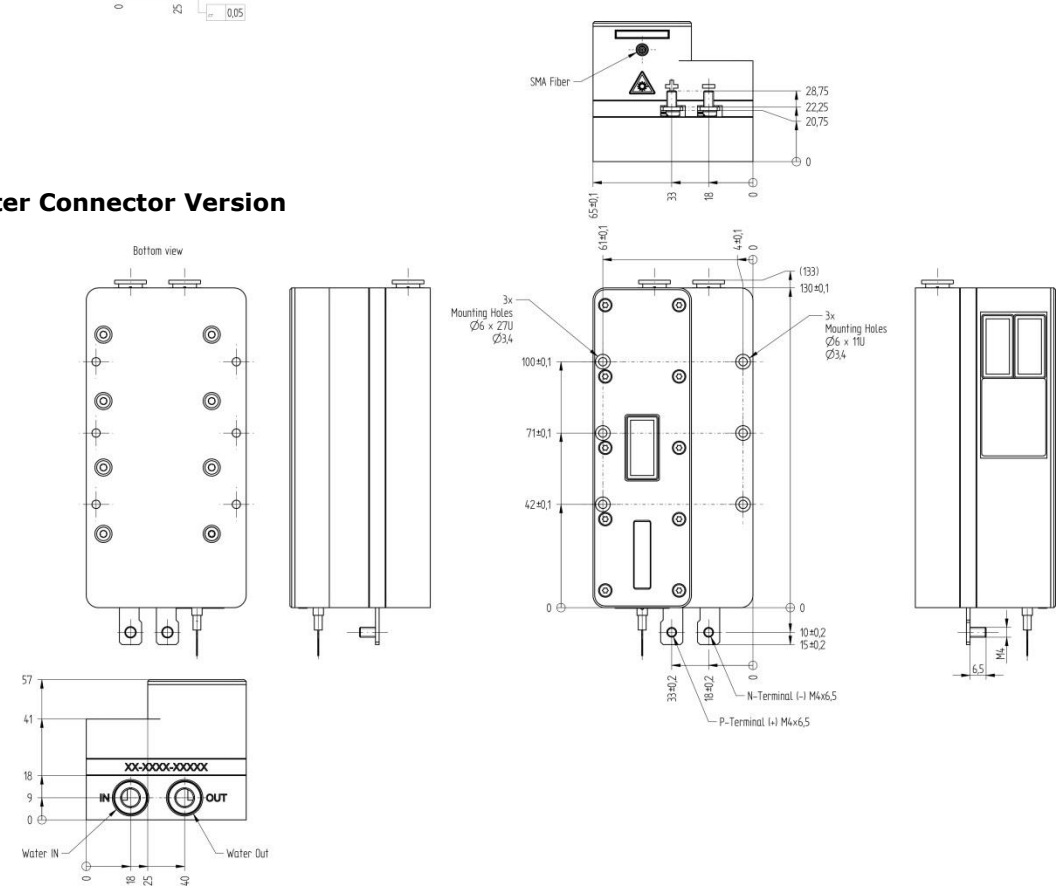
Package Dimension



Water Connector Version



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