9xxnm, Water-Cooled, Frameless Vertical Stacks

Features

- Low thermal resistance CW and QCW operation
- Available as non-collimated or fast-axis-collimated unit
- Customized geometries available
- Customized housings available
- Up to 30 bars vertically CW and QCW operation

Device Specification

Optical Parameters[1]	**Units**		
Center Wavelength Range[3]	nm	9xx	
Center Wavelength Tolerance[3]	nm	±5	
Output Power per Bar[2]	W	50	80
Number of Bars[3]	#	1 to 30	
Bar-to-Bar Spacing[3]	mm	approx. 1.9	
Spectral Width (FWHM)	nm	<5	
Slope Efficiency per Bar	W/A	>1.05	>1.05
Fast-Axis Divergence (90%)[5]	degrees	<70	<70
Slow-Axis Divergence (90%)[6]	degrees	8	
Wavelength Temp. Coefficient	nm/°C	0.31-0.38	
Beam Geometry after FAC Lens (n=number of bars)		10mm x 0.8mm	
Electrical Parameters[1]			
Power Conversion Efficiency	%	>52	
Threshold Current (I_{TH})	A	<13	<20
Operating Current (I_{OP})	A	<60	<95
Operating Voltage (V_{OP})	V	<1.8	
Thermal Parameters			
Operating Temperature Range[3]	°C	+20 to 30	
Storage Temperature Range	°C	0 to 55	

Please refer to DILAS water specification for cooling requirements.

[1]Data at 25°C water temperature, unless otherwise stated.
[2]Reduced lifetime if used above nominal operating conditions.
[3]Others available upon request.
[4]QCW, <2% Duty Cycle, <500µsec.
[5]For fast-axis collimation using FAC lens: divergence <8mrad.
[6]Slow-axis lense arrays available upon request.

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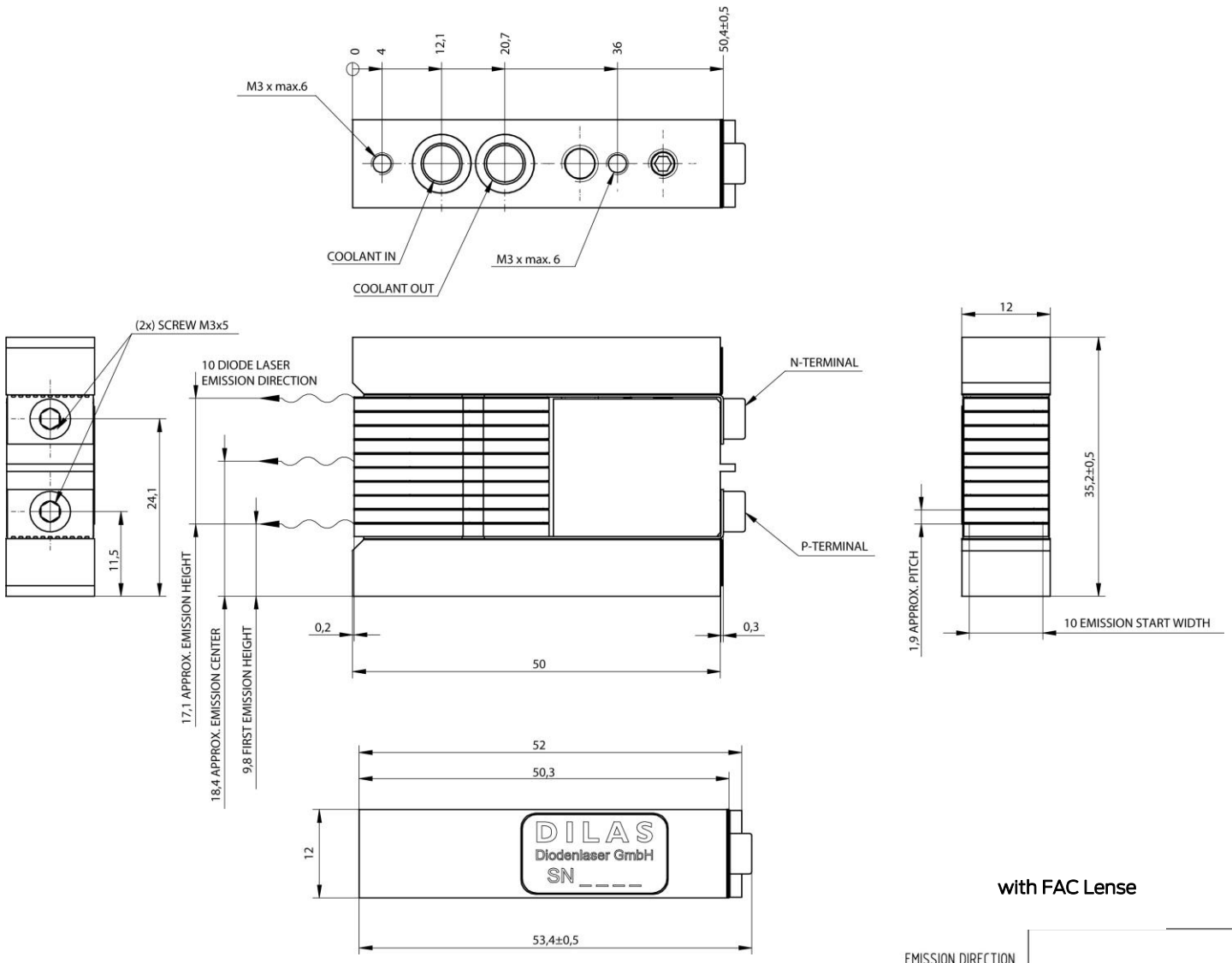
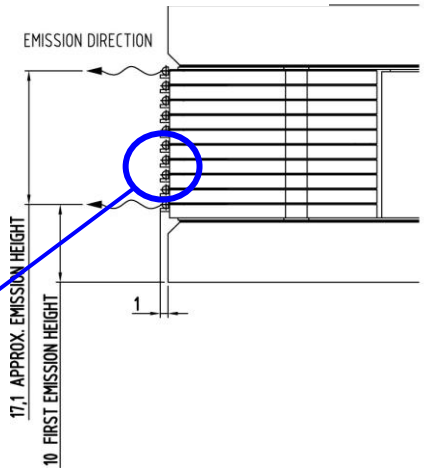
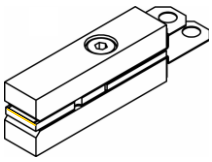
Package Dimension



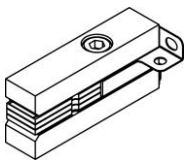
with FAC Lense



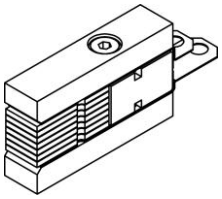
1-Bar Stack



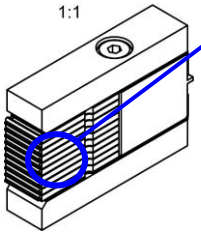
3-Bar Stack



6-Bar Stack



10-Bar Stack



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