

88xnm, Water-Cooled, Horizontal Diode Laser Stack



Features

- Compact size
- Up to 13-bars side-by-side
- Low thermal resistance
- Flexible stack design
- Horizontal stacks designed to meet custom specifications
- Available in fast-axis and slow-axis collimated
- CW and QCW operation



Device Specification

Optical Parameters ¹		Units	
Center Wavelength Range ³	nm	88x	
Center Wavelength Tolerance ³	nm	±3	
Output Power per Bar ^{2, 3, 4}	W	50	80
Number of Bars	#	(2 to 13), for Custom Configurations Consult DILAS	
Spectral Width (FWHM)	nm	<5	<5
Slope Efficiency per Bar	W/A	>1.05	>1.10
Fast-Axis Divergence ⁴ (90%)	degree	<50	<60
Slow-Axis Divergence (90%)	degree	8	8
Wavelength Temp. Coefficient	nm/°C	~0.30	~0.30

Electrical Parameters ¹			
Power Conversion Efficiency	%	>54	>54
Threshold Current (I_{TH})	A	<11	<16
Operating Current (I_{OP})	A	<60	<85
Operating Voltage per Bar (V_{OP})	V	<1.8	<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.

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

²Reduced lifetime if used above nominal operating conditions.

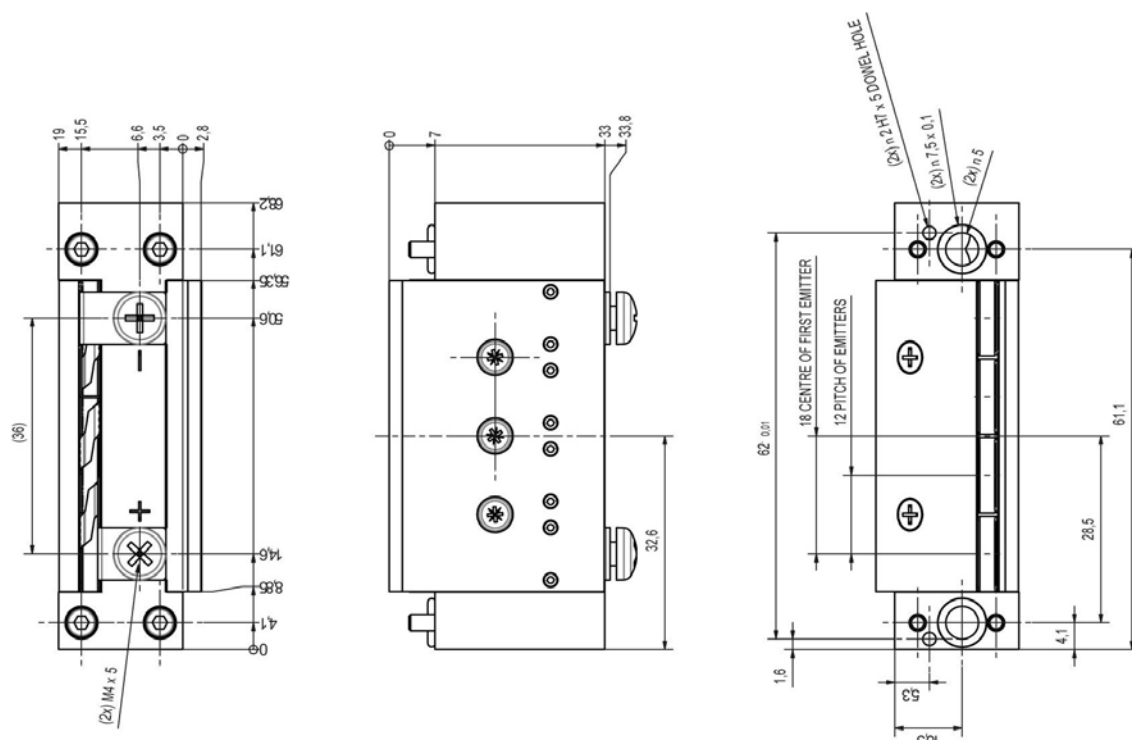
³Others available upon request.

⁴For fast-axis collimation using FAC lens: divergence <8mrad.

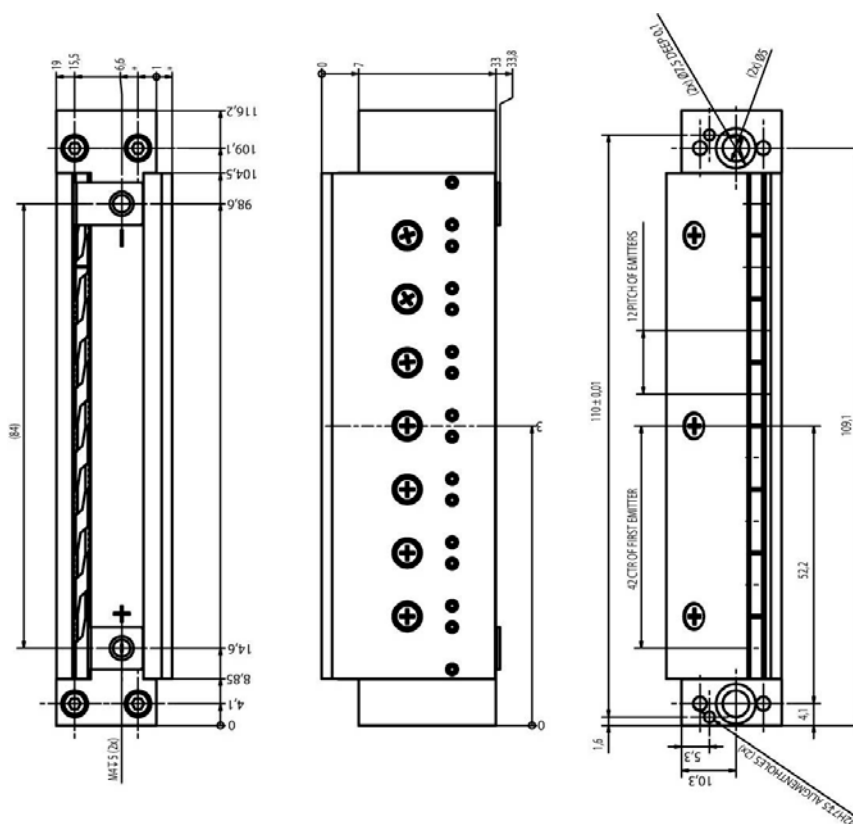
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Package Dimension

4-Bar Stack



8-Bar Stack



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For complete details, please contact your local DILAS sales representative or visit our website at www.DILAS.com.

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