

9xxnm, Water-Cooled, Housed Vertical Stacks

Features

- Low thermal resistance
- Available as non-collimated or fast axis collimated unit
- Dust protected housings or, hermetically sealed housings are available
- Up to 70 bars vertically stacked
- 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 70	
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	degree	<70	<70
Slow-Axis Divergence (90%) ⁶	degree	8	
Wavelength Temp. Coefficient	nm/°C	~0.27	
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 per Bar (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.

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

²Reduced lifetime if used above nominal operating conditions.

³Others available upon request.

⁴QCW operation please contact DILAS.

⁵For fast-axis collimation using FAC lens: divergence <8mrad.

⁶Slow-axis lense arrays available upon request.

DILAS
The diode laser company.

12-Bar Stack



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