

940nm, 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	940
Center Wavelength Tolerance ³	nm	±5
Output Power per Bar ^{2, 3, 4}	W	50
Number of Bars	#	(2 to 13), for Custom Configurations Consult DILAS
Spectral Width (FWHM)	nm	<6
Slope Efficiency per Bar	W/A	>1.12
Fast-Axis Divergence ⁴ (90%)	mrad	<70
Slow-Axis Divergence (90%)	mrad	<8
Wavelength Temp. Coefficient	nm/°C	~0.31

Electrical Parameters ¹		
Power Conversion Efficiency	%	>50
Threshold Current (I_{TH})	A	<15
Operating Current (I_{OP})	A	<65
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 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.

