

88xnm, Water-Cooled, Single Bar Diode Laser

Features

- Single water-cooled bar
- Low thermal resistance CW and QCW operation
- Available as non-collimated or fast-axis-collimated unit
- Customized geometries available



Device Specification

Optical Parameters ¹		Units
Center Wavelength Range ³	nm	880
Center Wavelength Tolerance ³	nm	±3
Output Power per Bar ²	W	80
Number of Bars ³	#	1
Spectral Width (FWHM)	nm	<5
Slope Efficiency per Bar	W/A	>1.15
Fast-Axis Divergence (90%) ⁵	degrees	<60
Slow-Axis Divergence (90%)	degrees	8
Wavelength Temp. Coefficient	nm/°C	~0.30
Beam Geometry after FAC Lens (n=number of bars)		10mm x 0.8mm

Electrical Parameters ¹		
Power Conversion Efficiency	%	>60
Threshold Current (I _{TH})	A	<16
Operating Current (I _{OP})	A	<80
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.

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

²Reduced lifetime if used above nominal operating conditions.

³Others available upon request.

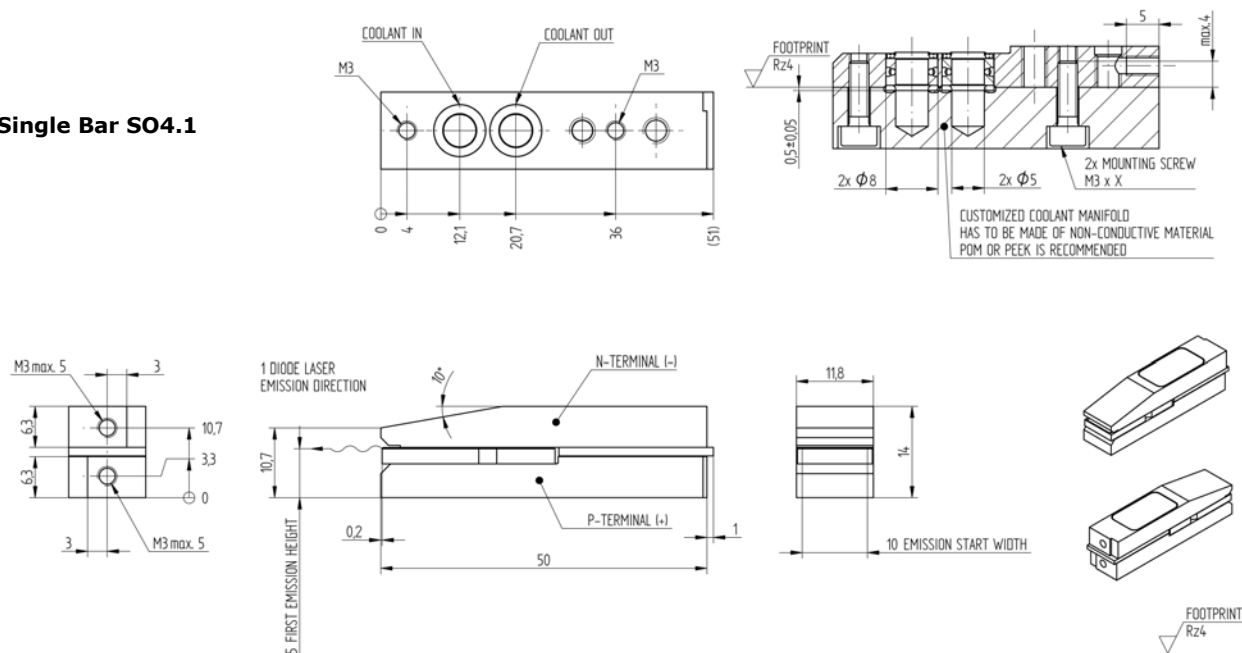
⁴QCW, <2% Duty Cycle, <500µsec.

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

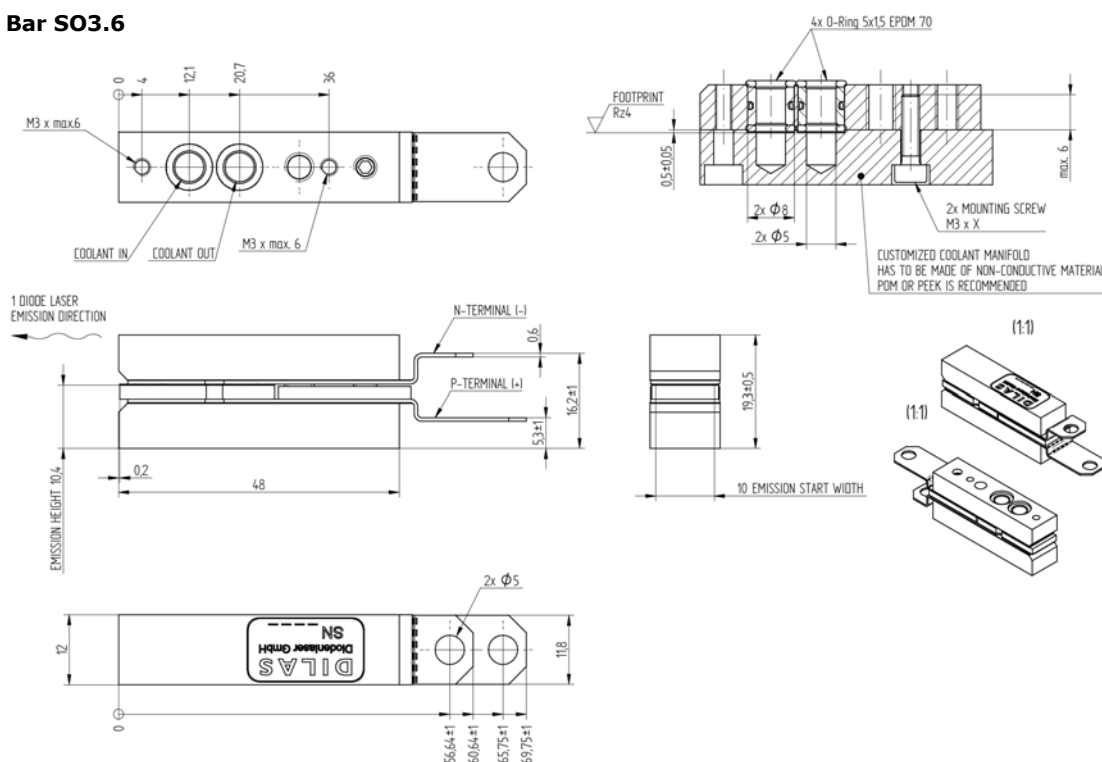
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Package Dimension

Single Bar S04.1



Single Bar S03.6



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