

9xxnm, 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	9xx	
Center Wavelength Tolerance ³	nm	±5	
Output Power per Bar ²	W	50	80
Number of Bars ³	#	1	
Spectral Width (FWHM)	nm	<5	
Slope Efficiency per Bar	W/A	>1.05	>1
Fast-Axis Divergence (90%) ⁵	degrees	<75	<70
Slow-Axis Divergence (90%)	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.

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

²Reduced lifetime if used above nominal operating conditions.

³Others available upon request.

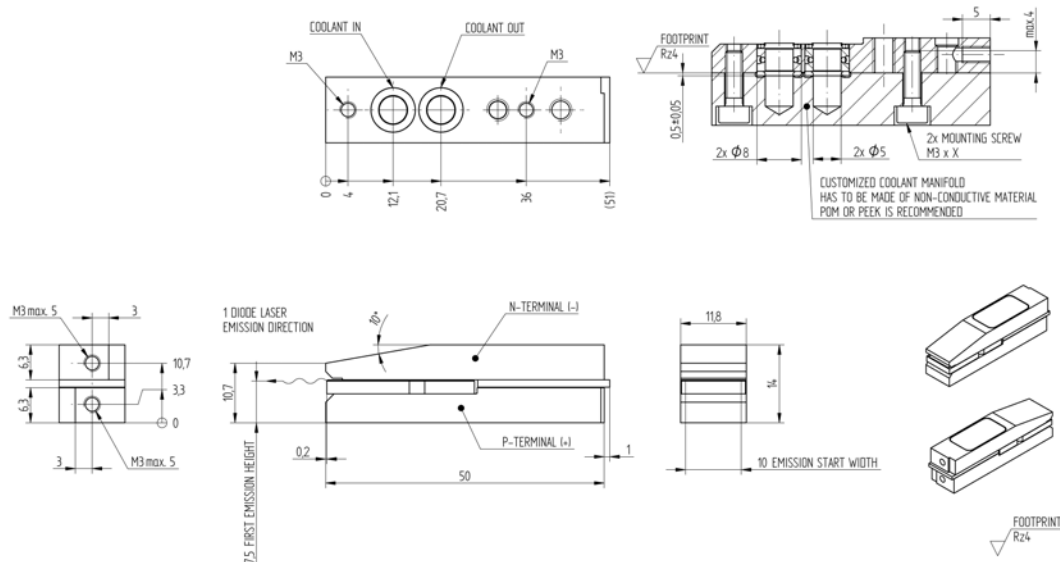
⁴QCW, <2% Duty Cycle, <500μsec.

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

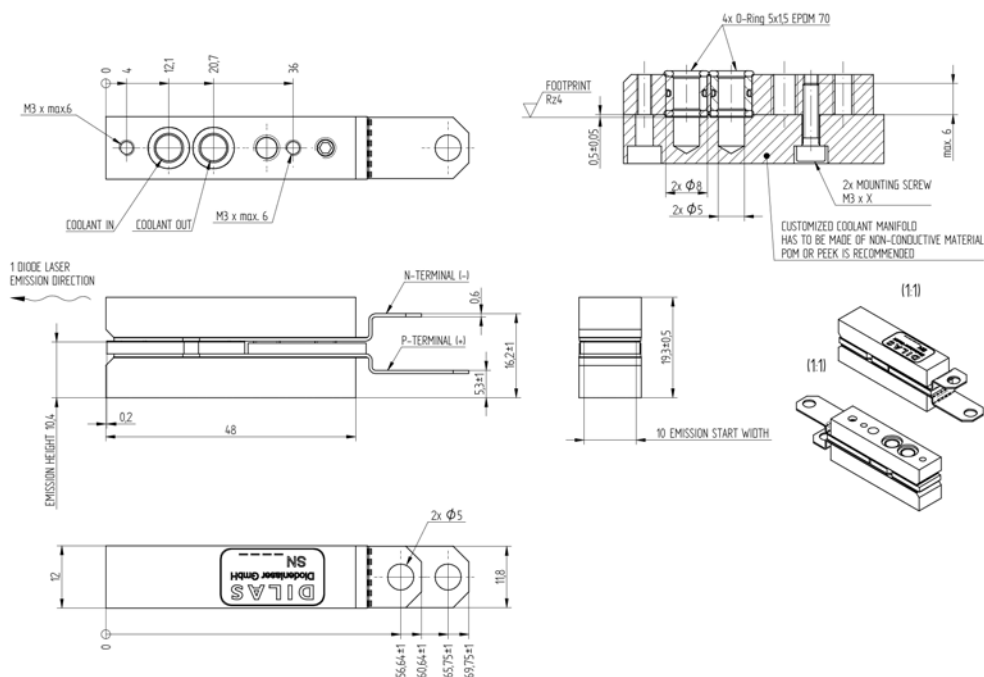
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Package Dimension

Single Bar S04.1



Single Bar S03.6



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