

940nm, Conduction-Cooled Single Bars

Features

- Very low smile
- Available with fast-axis collimation
- Different heatsink geometries available



Device Specification

Optical Parameters ¹	Units	CW	QCW ⁶
Center Wavelength Range ³	nm	940	940
Center Wavelength Tolerance	nm	±3	±3
Output Power ² (P _{OP})	W	60	300
Number of Emitters	#	19	40
Emitter Size	µm	100	100
Fill Factor	%	20	80
Spectral Width (FWHM)	nm	<5	<8
Slope Efficiency	W/A	>1	>1.14
Fast-Axis Divergence ⁵ (90%)	degree	<48	<65
Slow-Axis Divergence (90%)	degree	<8	<12
Wavelength Temp. Coefficient	nm/°C	~0.34	~0.34

Electrical Parameters ¹			
Power Conversion Efficiency	%	>58	>57
Threshold Current (I _{TH})	A	<6	<22
Operating Current (I _{OP})	A	<70	<285
Operating Voltage (V _{OP})	V	<1.70	<2.00

Thermal Parameters ¹			
Operating Temperature Range ⁴	°C	+20 to +30	+20 to +30
Storage Temperature Range ⁴	°C	0 to +55	0 to +55
Recommended Heatsink Capacity Per Bar	W	>70	>20

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

²Reduced lifetime if used above nominal operating conditions.

³Others available upon request.

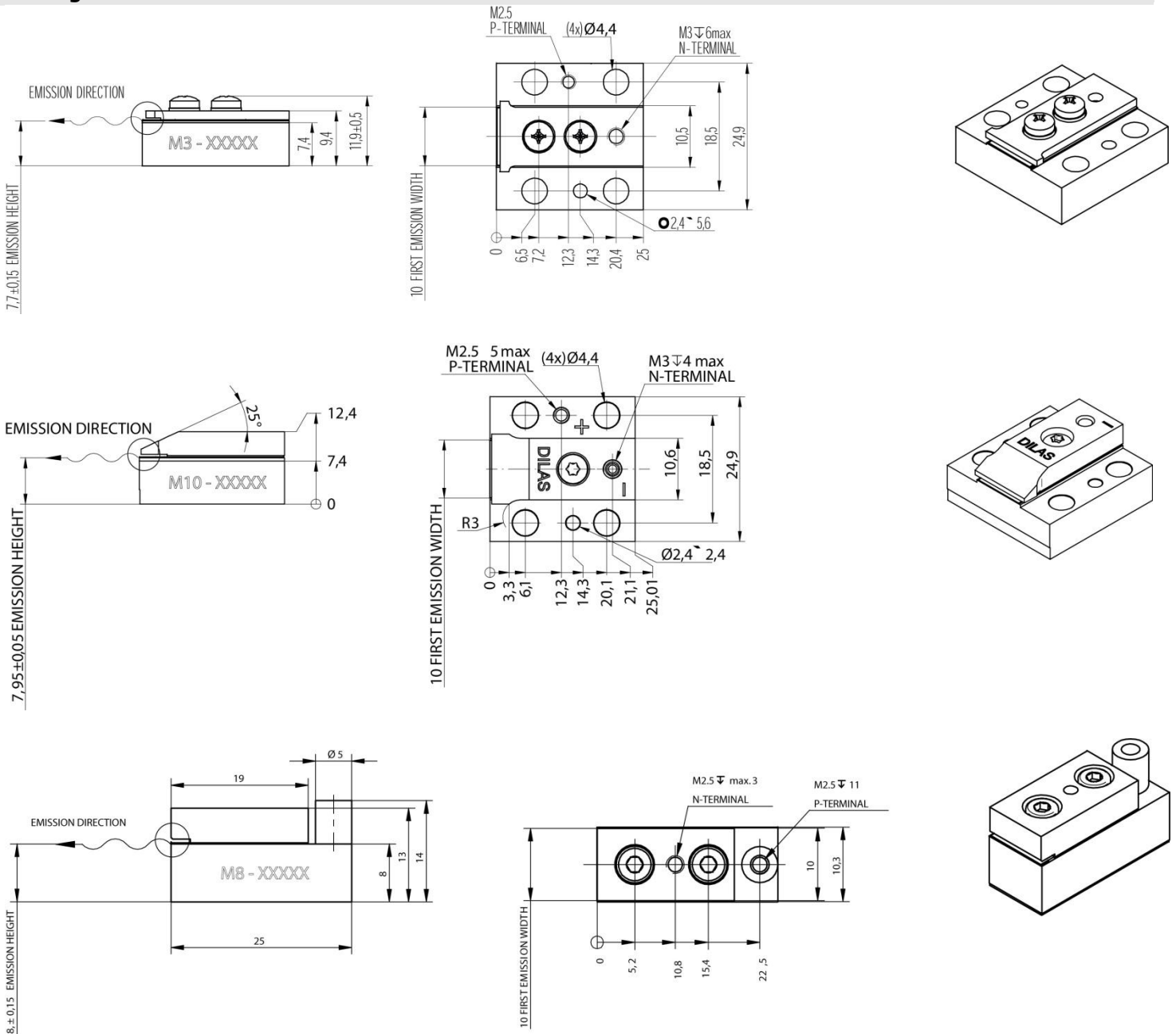
⁴A non-condensing environment is required for storage and operation below the ambient dew point.

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

⁶Depending on pulse width and duty cycle.

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Package Dimension



Heatsink for MY Diode Laser Bars with Fast-Axis Collimation Lens:

Beam heights available:

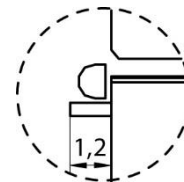
M3 mount = 7.7mm

M10 mount = 7.95mm

M8 mount = 8.0mm

Upon request:

M7 mount = 6.0mm



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