

Features

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



Device Specification

Optical Parameters ¹	Units	CW	QCW ⁷
Center Wavelength Range ³	nm	1550	1550
Center Wavelength Tolerance	nm	±20	±20
Output Power ² (P _{OP})	W	20	70
Number of Emitters	#	20	20
Emitter Size	µm	100	100
Fill Factor	%	20	20
Spectral Width (FWHM)	nm	<12	<18
Slope Efficiency	W/A	>0.38	>0.40
Fast-Axis Divergence ⁵ (90%)	degree	~25 ⁶	~25 ⁶
Slow-Axis Divergence (90%)	degree	~8 ⁶	~8 ⁶
Wavelength Temp. Coefficient	nm/°C	~0.62	~0.62
Electrical Parameters ¹			
Power Conversion Efficiency	%	>24	>21
Threshold Current (I _{TH})	A	<11	<12
Operating Current (I _{OP})	A	<65	<165
Operating Voltage (V _{OP})	V	<1.40	<2.10
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	>80	>20

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

²Reduced lifetime if used above nominal operating conditions.

³Others available upon request.

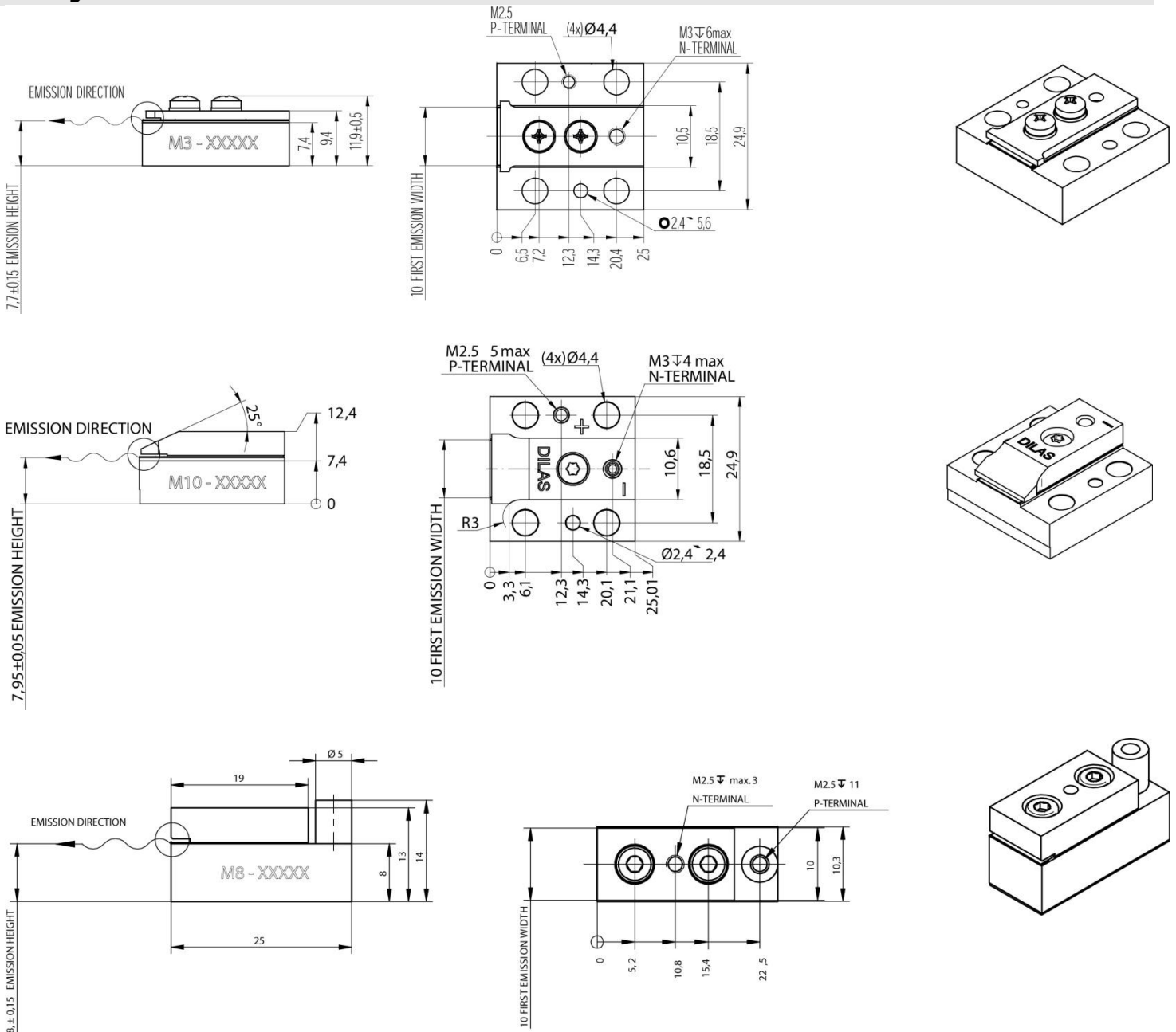
⁴A non-condensing environment is required for storage and operation below the ambient dew point.

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

⁶Bar manufacturer information.

⁷Depending on pulse width and duty cycle.

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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