

Features

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



Device Specification

Optical Parameters ¹		Units
Center Wavelength Range ³	nm	1940
Center Wavelength Tolerance	nm	±20
Output Power ² (P _{OP})	W	10
Number of Emitters	#	19
Emitter Size	μm	100
Fill Factor	%	20
Spectral Width (FWHM)	nm	<15
Slope Efficiency	W/A	>0.28
Fast-Axis Divergence ⁵ (90%)	degree	~84 ⁶
Slow-Axis Divergence (90%)	degree	~14 ⁶
Wavelength Temp. Coefficient	nm/°C	~1.20
Electrical Parameters ¹		
Power Conversion Efficiency	%	>20
Threshold Current (I _{TH})	A	<6
Operating Current (I _{OP})	A	<46
Operating Voltage (V _{OP})	V	<1.20
Thermal Parameters ¹		
Operating Temperature Range ⁴	°C	+20 to +30
Storage Temperature Range ⁴	°C	0 to +55
Recommended Heatsink Capacity Per Bar	W	>70

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.

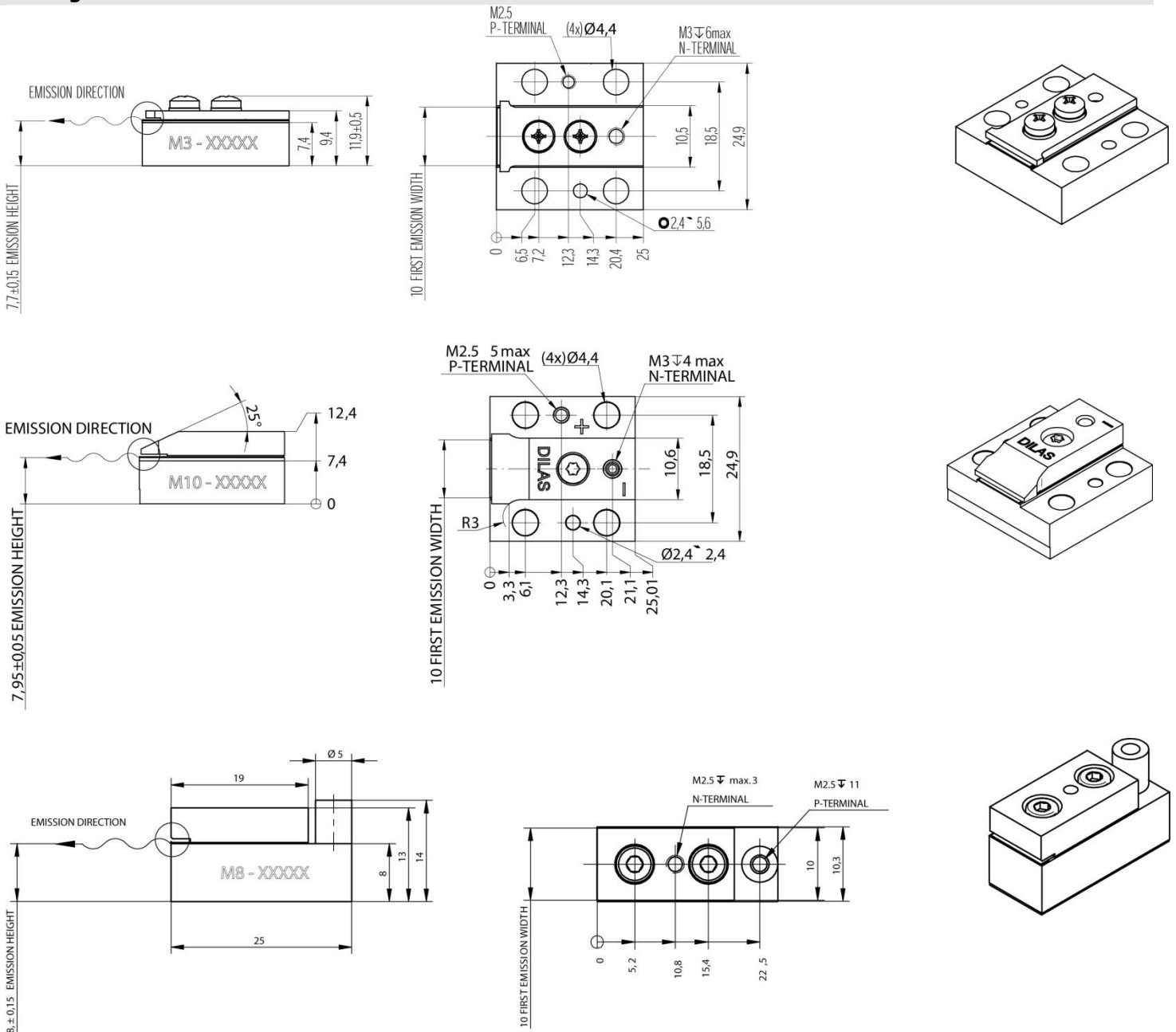
⁵For fast-axis collimation using FAC lens: divergence <8mrad.

⁶Bar manufacturer information.

1940nm, Conduction-Cooled Single Bars



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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