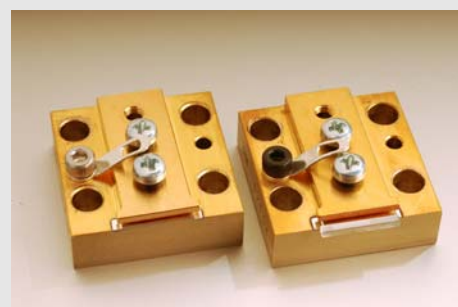


40W, 880nm/1064nm Conduction Cooled Diode Laser Single Bar

Features

- Very low smile
- Available as non-collimated (MN Series) or fast-axis collimated unit (MY Series)
- Custom design on request
- Available also in AuSn technology
- Different heatsink geometries available



Device Specification

Optical ¹	Units		
Center Wavelength Range ³	nm	880	1064
Center Wavelength Tolerance	nm	±3	±20
Output Power ²	W	40	40
Number of Emitters	#	19	19
Emitter Size	µm	130	130
Fill Factor	%	25	25
Spectral Width (FWHM)	nm	≤ 6	≤5
Slope Efficiency	W/A	≥ 1.0	1.0
Fast Axis Divergence ⁵ (90%)	degree	<60	<70
Slow Axis Divergence (90%)	degree	<9	<9
Wavelength Temp. Coefficient ³	nm/°C	0.30	~0.37

Electrical Parameters ¹			
Power Conversion Efficiency	%	50	47
Threshold Current (I_{TH})	A	<10	<8
Operating Current (I_{OP})	A	46	55
Operating Voltage (V_{OP})	V	<1.8	<1.7

Thermal Parameters			
Operating Temperature Range ^{3, 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	≥70

¹Data at 20°C cold plate temperature, unless otherwise stated.

²Reduced lifetime if used above nominal operating conditions.

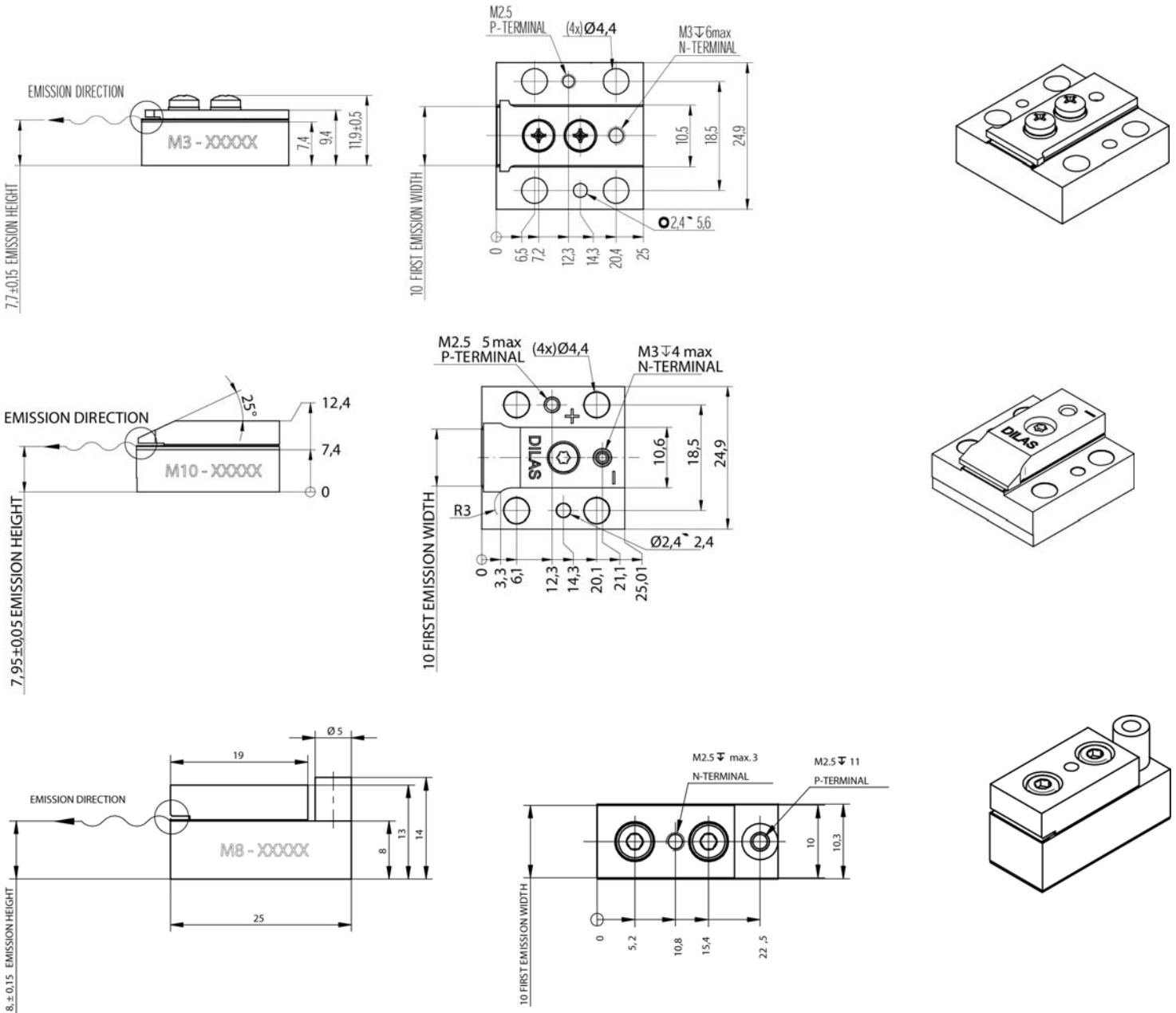
³Others available upon request.

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

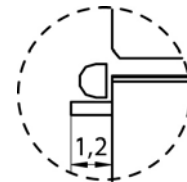
⁵For fast axis collimation using FAC lens: divergence <8mrad.

40W, 880nm/1064nm Conduction Cooled Diode Laser Single Bar

Package Dimension



Volute for all heatsink MY-diode laser bars with fast axis collimation lens:



Other beam heights available:

- M1 mount = 8.7mm (upon request)
- M3 mount = 7.7mm
- M7 mount = 6.0mm (upon request)
- M8 mount = 8.0mm (upon request)
- M10 mount = 7.95mm



DILAS products specifications are subject to change without notice. For handling precautions, please reference the general handling instruction manual.

For complete details, please contact your local DILAS sales representative or visit our website at www.DILAS.com.

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