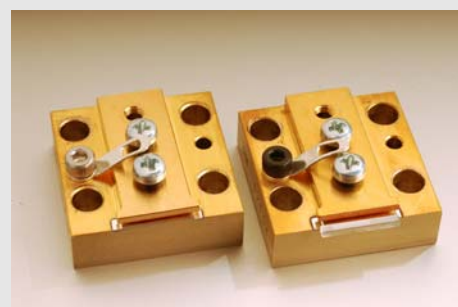


# 60W, 915nm, 940nm, 976nm Conduction Cooled Diode Laser Single Bar

## 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 <sup>1</sup>	Units	915	940	976
Center Wavelength Range <sup>3</sup>	nm	915	940	976
Center Wavelength Tolerance	nm	±3	±3	±3
Output Power <sup>2</sup>	W	60	60	60
Number of Emitters	#	19	19	19
Emitter Size	µm	100	100	100
Fill Factor	%	20	20	20
Spectral Width (FWHM)	nm	≤5	≤5	≤5
Slope Efficiency	W/A	>1	>1	>0.95
Fast Axis Divergence <sup>6</sup> (90%)	degree	<48	<48	<46
Slow Axis Divergence (90%)	degree	<9	<8	<7.5
Wavelength Temp. Coefficient <sup>3</sup>	nm/°C	~0.32	~0.33	~0.34
Electrical Parameters <sup>1</sup>				
Power Conversion Efficiency	%	50	58	55
Threshold Current (I <sub>TH</sub> )	A	<6	<6	<7.5
Operating Current (I <sub>OP</sub> )	A	65	70	70
Operating Voltage (V <sub>OP</sub> )	V	<1.7	<1.7	<1.7
Thermal Parameters				
Operating Temperature Range <sup>3, 4</sup>	°C	+20 to 30		
Storage Temperature Range <sup>4</sup>	°C	0 to 55		
Recommended Heatsink Capacity Per Bar	W	≥70		

<sup>1</sup>Data at 20°C cold plate temperature, unless otherwise stated.

<sup>2</sup>Reduced lifetime if used above nominal operating conditions.

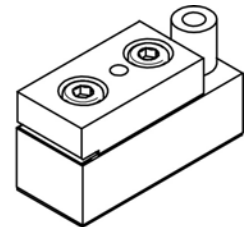
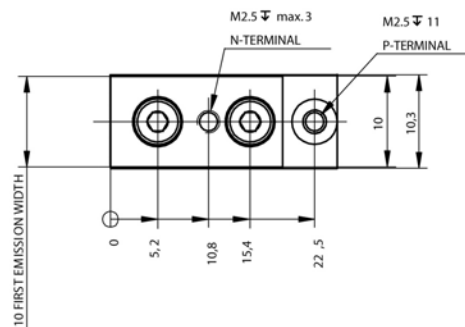
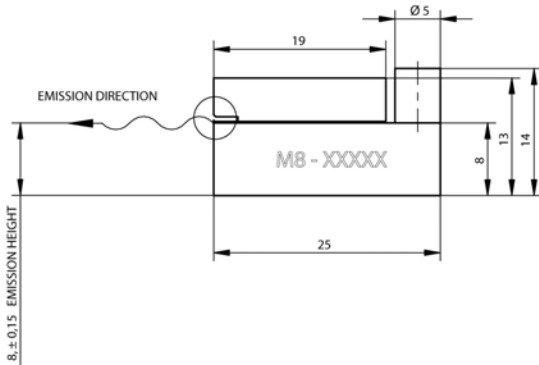
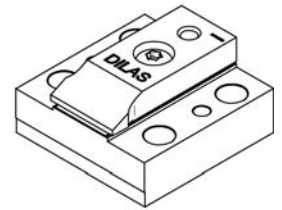
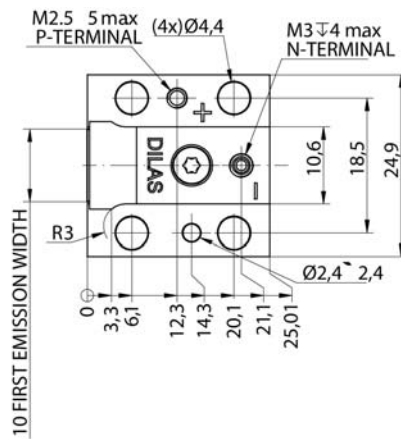
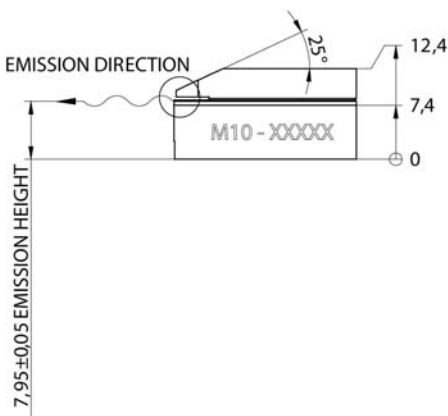
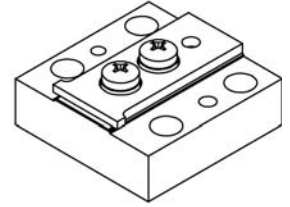
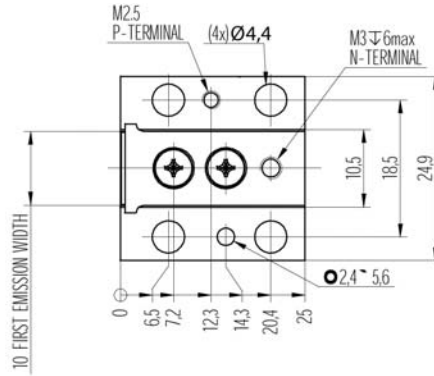
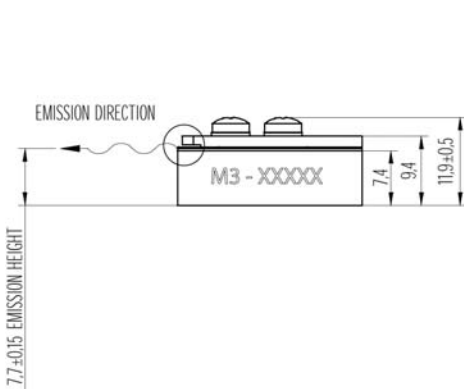
<sup>3</sup>Others available upon request.

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

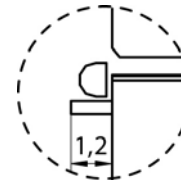
<sup>6</sup>For fast axis collimation using FAC lens: divergence <8mrad.

# 60W, 915nm, 940nm, 976nm 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](http://www.DILAS.com).

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