

Features

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



Device Specification

Optical ¹	Units	
Center Wavelength Range ³	nm	808
Center Wavelength Tolerance	nm	± 3
Output Power ²	W	60
Number of Emitters	#	19
Emitter Size	µm	150
Fill Factor	%	30
Spectral Width (FWHM)	nm	≤ 3
Slope Efficiency ⁷	W/A	1.21
Fast Axis Divergence ⁶ (90%)	degree	≤ 65
Slow Axis Divergence (90%)	degree	≤ 7.5
Wavelength Temp. Coefficient	nm/°C	~0.28

Electrical Parameters:

Power Conversion Efficiency ⁷	%	56
Threshold Current (I_{TH}) ⁷	A	10.2
Operating Current (I_{OP}) ⁷	A	≤ 66
Operating Voltage (V_{OP})	V	1.8

Thermal Parameters:

Operating Temperature Range ^{3, 4}	°C	+20 to 30
Storage Temperature Range ⁴	°C	0 to 55
Recommended Head Sink Capacity Per Bar	W	≥ 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.

⁵QCW, <2% duty cycle, <500µsec.

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

⁷Typical value.

60W, 808nm Conduction Cooled Diode Laser Single Bar

Package Dimension

Available Beam Heights:

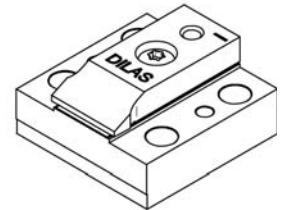
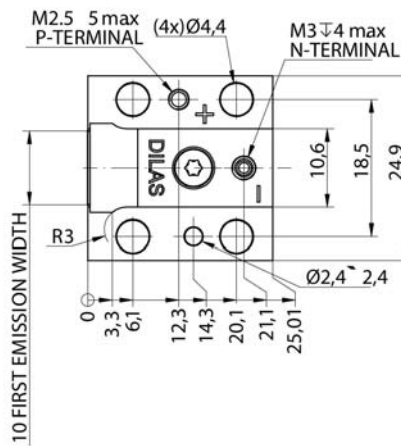
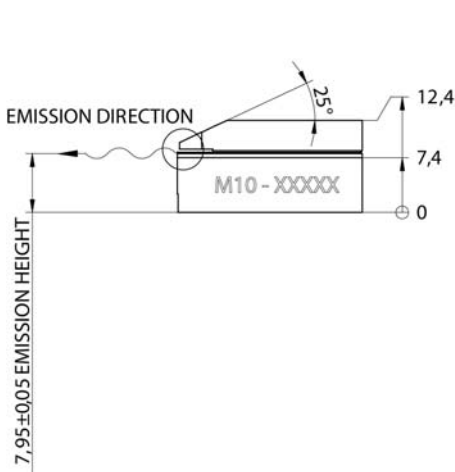
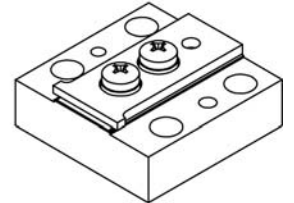
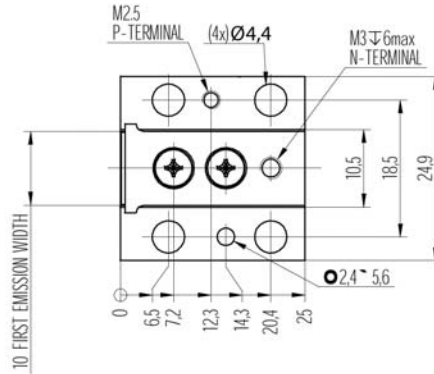
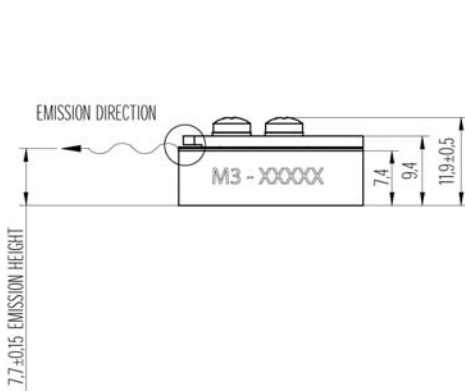
M1 mount = 8.7mm

M3 mount = 7.7mm

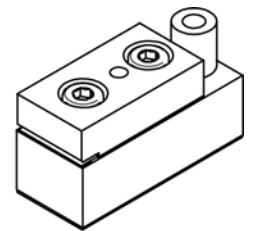
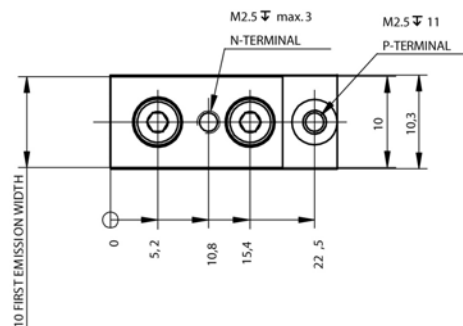
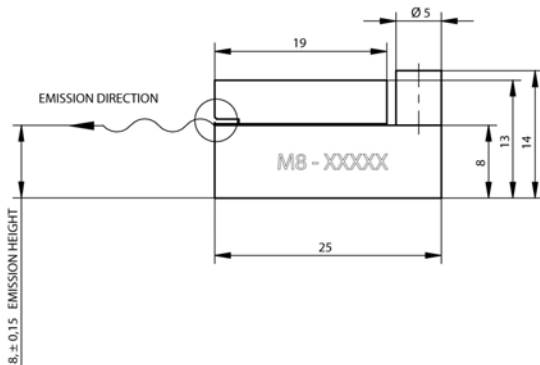
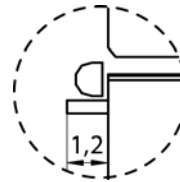
M7 mount = 6.0mm

M8 mount = 8.0mm

M10 mount = 7.95mm



Detail of MY-diode laser bar with Fast-Axis-Collimation lens:



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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