

## Features

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



## Device Specification

| Optical Parameters <sup>1</sup>              | Units  | CW    | QCW <sup>6</sup> |
|----------------------------------------------|--------|-------|------------------|
| Center Wavelength Range <sup>3</sup>         | nm     | 940   | 940              |
| Center Wavelength Tolerance                  | nm     | ±3    | ±3               |
| Output Power <sup>2</sup> (P <sub>OP</sub> ) | W      | 60    | 300              |
| Number of Emitters                           | #      | 19    | 40               |
| Emitter Size                                 | μm     | 100   | 100              |
| Fill Factor                                  | %      | 20    | 80               |
| Spectral Width (FWHM)                        | nm     | <5    | <8               |
| Slope Efficiency                             | W/A    | >1    | >1.14            |
| Fast-Axis Divergence <sup>5</sup> (90%)      | degree | <48   | <65              |
| Slow-Axis Divergence (90%)                   | degree | <8    | <12              |
| Wavelength Temp. Coefficient                 | nm/°C  | ~0.34 | ~0.34            |

| Electrical Parameters <sup>1</sup>   |   |       |       |
|--------------------------------------|---|-------|-------|
| Power Conversion Efficiency          | % | >58   | >57   |
| Threshold Current (I <sub>TH</sub> ) | A | <6    | <22   |
| Operating Current (I <sub>OP</sub> ) | A | <70   | <285  |
| Operating Voltage (V <sub>OP</sub> ) | V | <1.70 | <2.00 |

| Thermal Parameters <sup>1</sup>          |    |            |            |
|------------------------------------------|----|------------|------------|
| Operating Temperature Range <sup>4</sup> | °C | +20 to +30 | +20 to +30 |
| Storage Temperature Range <sup>4</sup>   | °C | 0 to +55   | 0 to +55   |
| Recommended Heatsink Capacity Per Bar    | W  | >70        | >20        |

<sup>1</sup>Data at 25°C cold plate temperature, unless otherwise stated.

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

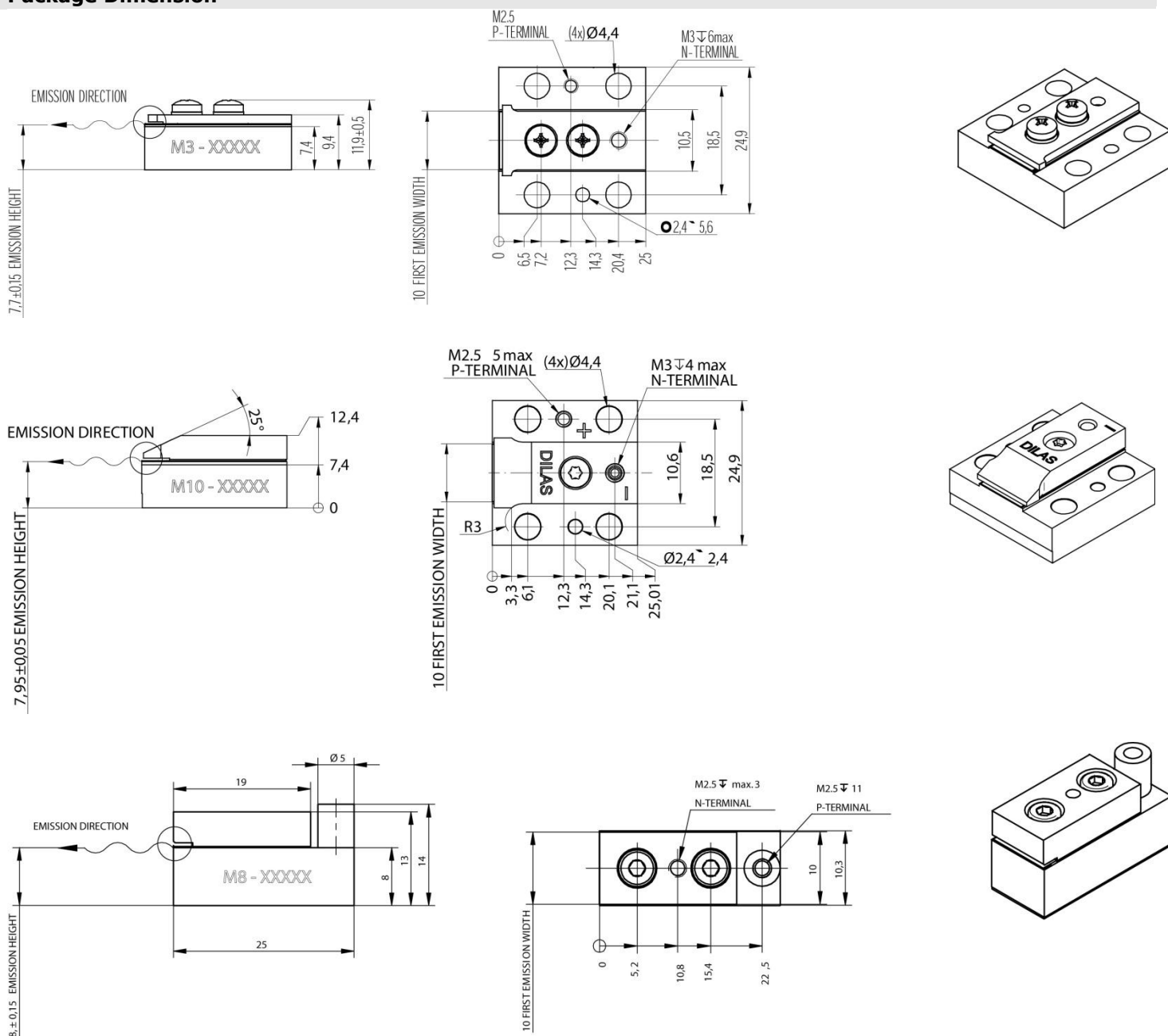
<sup>3</sup>Others available upon request.

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

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

<sup>6</sup>Depending on pulse width and duty cycle.

## Package Dimension



## Heatsink for MY Diode Laser Bars with Fast-Axis Collimation Lens:

Beam heights available:

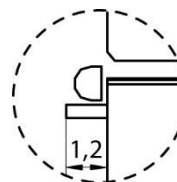
M3 mount = 7.7mm

M10 mount = 7.95mm

M8 mount = 8.0mm

Upon request:

M7 mount = 6.0mm



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