

## Features

- QCW operation
- Hard soldering (AuSn)



## Device Specification

| Optical Parameters <sup>1</sup>                 | Units  |     |      |     |
|-------------------------------------------------|--------|-----|------|-----|
| Center Wavelength Range <sup>2</sup>            | nm     |     | 940  |     |
| Center Wavelength Tolerance <sup>2</sup>        | nm     |     | ± 10 |     |
| Output Power <sup>3</sup>                       | W      | 200 | 300  | 400 |
| Number of Bars <sup>4</sup>                     | #      |     | 1    |     |
| Spectral Width (FWHM)                           | nm     |     | <6   |     |
| Slope Efficiency                                | W/A    |     | 1.1  |     |
| Fast-Axis Divergence without Optics             | degree |     | 70   |     |
| Fast-Axis Divergence with Fast-Axis Collimation | mrad   |     | <8   |     |
| Slow-Axis Divergence                            | degree |     | <10  |     |
| Wavelength Temp. Coefficient                    | nm/°C  |     | 0.34 |     |

| Electrical Parameters <sup>1</sup> | Units |      |      |      |
|------------------------------------|-------|------|------|------|
| Power Conversion Efficiency        | %     |      | >55  |      |
| Threshold Current ( $I_{TH}$ )     | A     |      | <25  |      |
| Operating Current ( $I_{OP}$ )     | A     | <210 | <300 | <400 |
| Operating Voltage ( $V_{OP}$ )     | V     |      | <2   |      |
| Duty Cycle <sup>5</sup>            | %     |      | 2    |      |
| Pulse Length <sup>5</sup>          | msec  |      | 1    |      |

| Thermal Parameters                       |    |            |
|------------------------------------------|----|------------|
| Operating Temperature Range <sup>6</sup> | °C | +20 to +35 |
| Storage Temperature Range <sup>6</sup>   | °C | 0 to +55   |
| Recommended Heatsink Capacity per Bar    | W  | >70        |

<sup>1</sup>Data at 20°C heat sink temperature.

<sup>2</sup>Custom configurations on request.

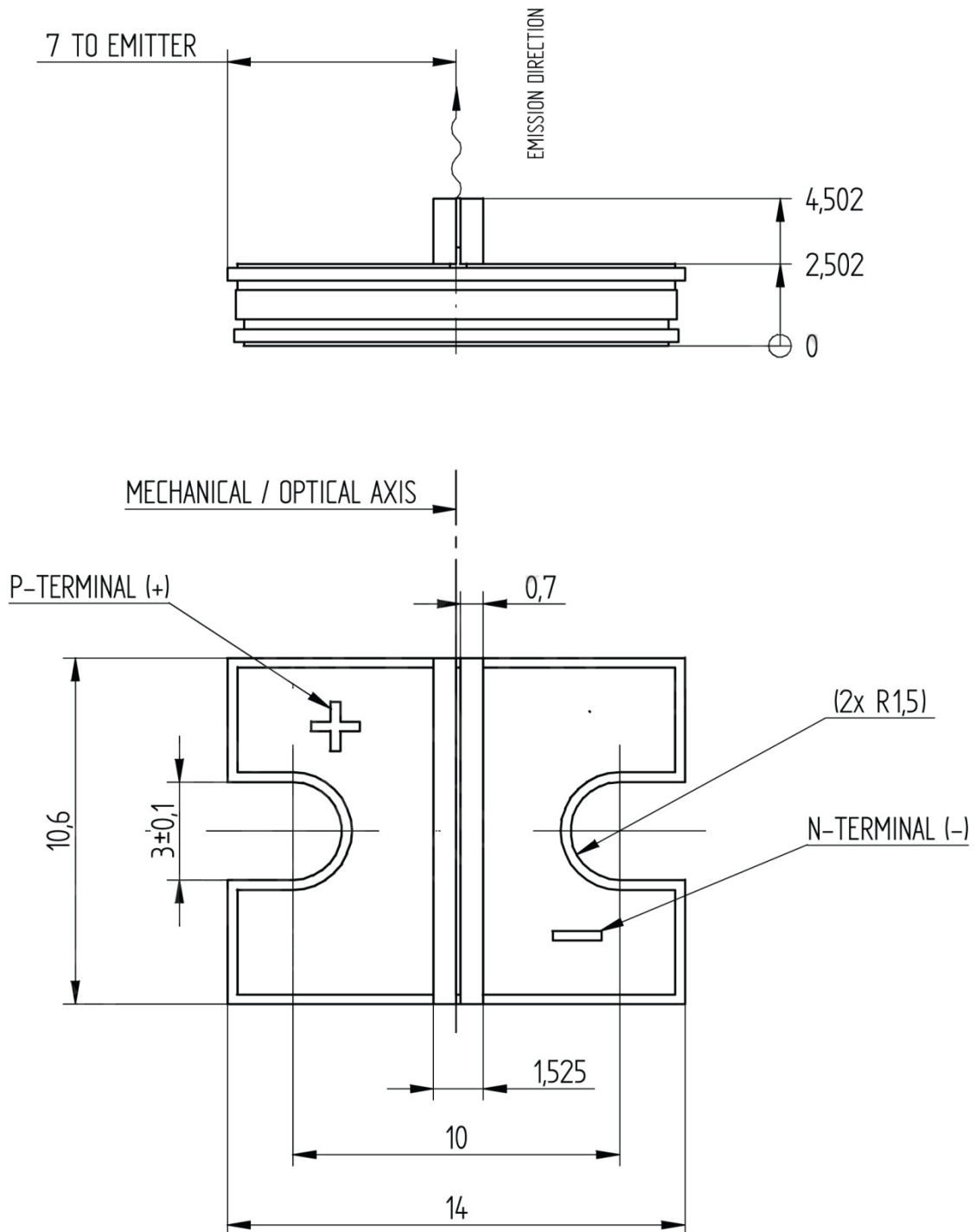
<sup>3</sup>Reduced lifetime if used above nominal operating conditions.

<sup>4</sup>For higher bar count, refer to vertical stack QCW datasheets.

<sup>5</sup>Custom pulse length/duty cycles on request.

<sup>6</sup>A non-condensing environment is required for storage and operation below the ambient dew point.

Package Dimension



All rights reserved. DILAS reserves the right to change product specifications 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).

**Europe**  
**DILAS Diodenlaser GmbH**  
 Galileo-Galilei-Straße 10  
 55129 Mainz  
 Germany  
 Phone: +49 (6131) 9226 0  
 Fax: +49 (6131) 9226 257  
 Email: [sales@DILAS.de](mailto:sales@DILAS.de)

**North America**  
**DILAS Diode Laser, Inc.**  
 9070 South Rita Road  
 Suite 1500  
 Tucson, AZ 85747  
 Phone: +1 (520) 232-3484  
 Fax: +1 (520) 232-3499  
 Email: [sales@DILAS-INC.com](mailto:sales@DILAS-INC.com)

**Asia**  
**DILAS Diodenlaser GmbH**  
 China Sales Office  
 Room 206, Sunplus Technology, Bldg. 2  
 No. 1077 Zu Chongzhi Road  
 Hi-Tech Park, Shanghai 201203,  
 P.R. China  
 Phone: +86 (0) 21-6855-2216  
 Fax: +86 (0) 21-5027-3793  
 Email: [sales@DILAS-CHINA.com.cn](mailto:sales@DILAS-CHINA.com.cn)