DPSS laser series
Diode-pumped solid-state laser
50 mW output at 607 nm

- Single frequency
- Outstanding long term stability
- Excellent beam quality
- Reliable and robust
- Maintenance free
- Compact design
- Suitable for OEM applications
- Customization on request
LASOS® DPSS laser series

The LASOS® DPSS laser series provide excellent beam quality in a variety of wavelengths based on the latest progress in solid state laser technology.

The LASOS® DPSS laser series offers a reliable and compact single frequency laser source in the VIS.

The LASOS® DPSS laser series provide the ideal products for applications in:
- Spectroscopy
- Interferometry
- Confocal and fluorescence microscopy
- Bioanalytical research
- Particle measurements
- Metrology
- Industrial measurements
- Medical
- Science and education

Customized solutions for specific applications are possible

Diode-pumped solid-state laser

Specifications RLK series:

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wavelength</td>
<td>607 nm ± 0.5 nm</td>
</tr>
<tr>
<td>Wavelength stability (8 h)</td>
<td>± 5 pm</td>
</tr>
<tr>
<td>Spectral Linewidth&lt;sup&gt;1&lt;/sup&gt;</td>
<td>&lt; 1 MHz</td>
</tr>
<tr>
<td>Output power</td>
<td>50 mW</td>
</tr>
<tr>
<td>Output power stability within 8 h</td>
<td>&lt; ± 2 %</td>
</tr>
<tr>
<td>Noise 30 Hz … 10 MHz</td>
<td>≤ 2 % rms</td>
</tr>
<tr>
<td>Warm up period</td>
<td>≤ 10 min</td>
</tr>
<tr>
<td>Transversal mode M&lt;sup&gt;2&lt;/sup&gt;</td>
<td>≤ 1.1</td>
</tr>
<tr>
<td>Beam waist diameter (1/e&lt;sup&gt;2&lt;/sup&gt;)</td>
<td>0.7 mm ± 0.07 mm</td>
</tr>
<tr>
<td>Beam ellipticity</td>
<td>1 ± 0.15</td>
</tr>
<tr>
<td>Pointing stability</td>
<td>&lt; 6 µrad K&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Beam divergence</td>
<td>≤ 1.4 mrad</td>
</tr>
<tr>
<td>Polarization ratio</td>
<td>≥ 200:1</td>
</tr>
<tr>
<td>Controller</td>
<td>CKL 2405, CKL 1005</td>
</tr>
</tbody>
</table>

<sup>1</sup>Allan Deviation for sample period < 0.5 s

Options on request

Dimensions [mm]:
- Laser Head
- Controller (CKL 2405/CKL 1005)

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