For worldwide photonics

## Lasos $^{\circ}$ DPSS laser series



LASOS® DPSS laser series
The LASOS DPSS laser series is the best choice when reliability and long lifetime matters. The special optical design and an intelligent guarantee

- Excellent long-term stability - Low noise
 Long lifetime

These characteristics are ideal for a variety of applications as in DNA sequency, flow cytometry, digital
imaging, analytical chemistry, fast-flow-rate particle measurements or confocal microscopy. Since all laser models emit only a single longitudinal mode they are also Raman- spectroscopy. Housed in compact and robust packages, these lasers are the perfect choice for design in and integration into
OEM instrumentation and systems and also for end user applications in research and development. The lasers will be provided as selfcontained laser modules, as
OEM-component modules or as OEM-component modules or as
fully integratable subsystems, with a compact controller as OEM or stand alone version with computer interfacing.
Customized solutions for specific applications are possible. All laser models can be provided with a polarization maintaining,
adjustment free fiber couling adjustment free fiber coupling.

| Model key | DLKV | BLKV | GLKTVVV |  |  | YLKıVV |  |  | RLKTV |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Wavelength [ nm ] | 320 | 473 | 515 | 532 | 540546 | 552 |  | 594) | 607640 |
| Max. output power [mW] ${ }^{2 /}$ | 20 | 100 | 50 | 300 | 5050 | 50 | 150 | 20 | 50200 |
| Max. beam divergence [mrad] | 1 | 1.1 | 1.2 | 1.2 | $1.2 \quad 1.2$ | 1.3 | 1.3 | 1.3 | 1.41 .4 |
| Beam diameter [mm] |  |  | 0.7 (0.32 on request) |  |  |  |  |  |  |
| Beam ellipticity | 0.8...1.2 |  | 0.9...1.1 |  |  |  |  |  | 0.9...1.1 |
| Beam quality $\mathrm{M}^{2}$ ( $\mathrm{TEM}_{00}$ ) |  |  | <1.2 |  |  |  |  |  | $<1.2$ |
| Power stability (8 h) [\%] |  |  | $< \pm 1$ |  |  |  |  |  | $< \pm 1$ |
| Wavelength stability (8 h) [nm] |  |  | $< \pm 0.002$ |  |  |  |  |  | $< \pm 0.002$ |
| Pointing stability [ $\mu \mathrm{rad} / \mathrm{K}$ ] |  |  | <6 |  |  |  |  |  | < 6 |
| Line width [ MHz$]^{3}$ ) |  |  | <1 |  |  |  |  |  | <1 |
| RMS noise ( $30 \mathrm{Hz-10} \mathrm{MHz)} \mathrm{[ } \mathrm{\%]}$ | $<2$ |  | < 0.5 |  |  |  |  |  | <2 |
| Polarization ratio (vertical) |  |  | > 200:1 |  |  |  |  |  | > 200:1 |
| Warm up time [min] |  |  | < 10 |  |  |  |  |  | < 10 |

For enquiries specify:
Model key Wavelength (last two digits) Output power (mW) TS
(Example for GLK 532 nm with 50 mW output power: GLK 3250 TS

- Standard models $\bigcirc$ Ask for lead time


## 1) Longitudinal multimode operation

Output power available for different wavelength (see figure to the right)
${ }^{3)}$ Allan Deviation for sample period $<0.5 \mathrm{~s}$


Dimensions laser head fiber coupled [mm]


Fiber coupling single mode, polarization maintaining or multi-mode ouping efficiency > 70\% For details refer to the LASOS Fiber series catalogue

Controller

|  | CKL 2400 / 2405 / 2440 | CKL 1000 / 1005 | CKL 1000 / 1005 with stand alone kit |
| :---: | :---: | :---: | :---: |
| Interface | RS232 | USB 2.0 | USB 2.0 and RS232 |
| Options | CDRH and OEM versions | OEM versions | CDRH compliant |
|  | Available as PCB in euroca |  | Switch Box, cable and power supply |
| Operating voltage | 12 or 24 VDC | 12 or 24 VDC | 12 or 24 VDC |
| Controller cable length | 1 or 2 m | 1 or 2 m | 1 or 2 m |
| Operating current (at 24 V input voltage): |  |  |  |
| Typical | $<0.6 \mathrm{~A}$ | $<0.6$ A | $<0.6 \mathrm{~A}$ |
| Maximum | 2 A | 2 A | 2 A |

Dimensions [mm]:

Optional accessory

|  | Power supply $24 \mathrm{~V} / 3 \mathrm{~A}$ | Heat sink LHA 2400 |
| :--- | :--- | :--- |
| Operating voltage | $100-240 \mathrm{VAC}$ | 24 VDC |
| Operating current | 1.5 A | 84 mA |
| Remark | Part of CKL $1000 / 1005$ with stand alone kit | Recommended for all laser heads |
|  | Optional accessory for CKL $2400 / 2405 / 2440$ |  |

Dimensions [mm]:


# LASOS Sales Partner Locations 

Please visit www.lasos.com for contact details

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