

491 nm DPSSL, single longitudinal mode (SLM) 25 – 100 mW CW

The Cobolt Calypso™ is a continuous-wave diode-pumped solid state laser operating at a fixed wavelength of 491 nm and built using proprietary HTCure™ manufacturing technology. The laser has a compact hermetically sealed package and emits a high-quality laser beam with stable characteristics over a wide range of operating conditions. The laser is designed and manufactured to ensure a high level of reliability.

The Cobolt Calypso™ laser is intended for stand-alone use in laboratory environment or for integration as OEM component.

The combination of high output power, a wavelength matching the Ar-ion laser and low power consumption makes the Cobolt Calypso™ ideal for use in demanding bio-analytical applications such as flow cytometry, laser scanning cytometry, DNA sequencing and confocal microscopy.



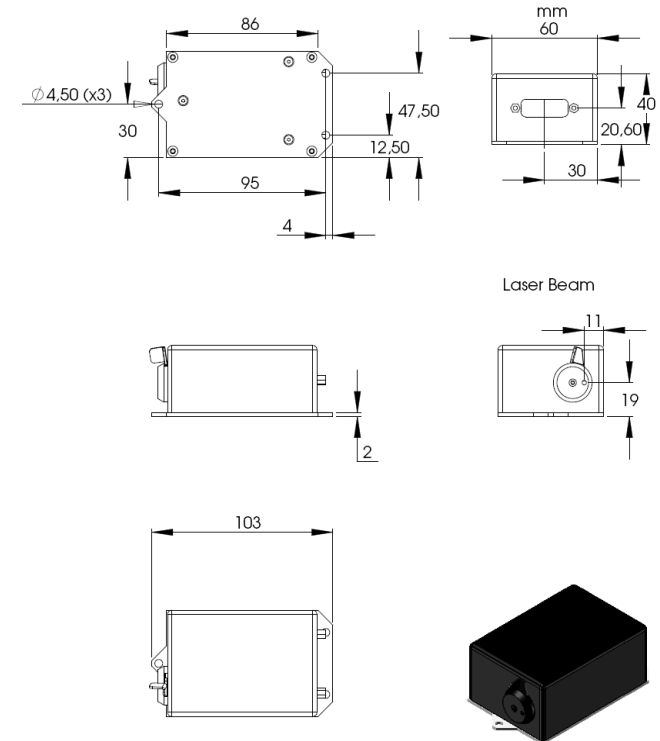
Specifications

Wavelength	491 nm
Output power	25, 50, 75 and 100 mW
Spectral linewidth	<30 MHz (<0.03 pm)
Spatial mode	TEM00, M ² <1.1
Beam diameter at aperture	700 μm
Beam divergence (full angle)	<1.2 mrad
Noise, 10 Hz – 2 MHz (pk-pk)	<3%, typical <2%
Noise, 10 Hz – 2 MHz (rms)	<0.3%
Long-term stability (8 h)	<3%
Beam pointing stability (over 10–40 °C)	<10 μrad/°C
Polarization ratio	>100:1
Total system power consumption	<25 W, typical <15 W
Operating temperature	10–40 °C
Laser head dimensions [mm]	95 x 60 x 40
Laser head dimensions [inches]	3.8 x 2.4 x 1.6
Controller (OEM/CDRH) dimensions [mm]	190 x 72 x 28
Controller (OEM/CDRH) dimensions [inches]	7.6 x 2.9 x 1.1
Model number	0491-04-01-0pwr-300 CDRH 0491-04-01-0pwr-400 OEM

Options & Accessories

- Laser Heatsink
- Fiber coupling
- Customised interface cable
- RS-232 communication cable
- Adaptor plate for compliance with 01-03 version

Laser Head Dimensions



Full specifications can be found in the manual.
Subject to change without notice. Rev 0509.

Class 3B (IEC60825-1), IEC60950-1, UL 60950-1