

The 532 nm DPSSL is a continuous-wave diode-pumped solid-state laser device operating at a fixed wavelength of 532 nm. 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. Single-longitudinal mode operation provides a narrow spectral bandwidth and long coherence length. The laser is designed and manufactured to ensure a high level of reliability.

The 532 nm DPSSL laser is intended for stand-alone use in laboratory environment or for integration as OEM component in equipment for applications including flow cytometry, laser scanning cytometry, DNA sequencing, wafer inspection, printing, spectroscopy, holography and projection displays.

Specifications

Wavelength	532 nm
Output power	25,50,100,150, & 300 mW
Spatial mode	TEM ₀₀ , M ² <1.1
Beam diameter at aperture	700µm
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%, typical < 0.2%
Long-term stability (8 h)	< 3% (+/- 1.5%)
Beam pointing stability (over 10-40°C)	< 10µrad / °C
Polarization ratio	> 100:1 linear
Total system power consumption	< 40 W, typical < 25 W
Operating temperature	10 - 40 °C
Laser head dimensions [mm]	95x60x40
Laser head dimensions [inches]	3.8x2.4x1.6
Controller (CDRH) dimensions [mm]	190x67x52
Controller (CDRH) dimensions [inches]	7.51x2.63x2.04
Controller (OEM) dimensions [mm]	190x67x25
Controller (OEM) dimensions [inches]	7.51x2.63x1.00



Accessories & Options

Laser Heatsink
 Fiber coupling
 Customised interface cable
 RS232 communication cable

The 473 nm DPSSL is a continuous-wave diode-pumped solid-state laser device operating at a fixed wavelength of 473 nm. 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. Single-longitudinal mode operation provides a narrow spectral bandwidth and long coherence length. The laser is designed and manufactured to ensure a high level of reliability.

The 473 nm DPSSL laser is intended for stand-alone use in laboratory environment or for integration as OEM component in equipment for applications including flow cytometry, laser scanning cytometry, DNA sequencing, wafer inspection, printing, spectroscopy, holography and projection displays.

Specifications

Wavelength	473 nm
Output power	25 & 50 mW
Spatial mode	TEM ₀₀ , M ² <1.1
Beam diameter at aperture	700µm
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%, typical < 0.2%
Long-term stability (8 h)	< 3% (+/- 1.5%)
Beam pointing stability (over 10-40°C)	< 10µrad / °C
Polarization ratio	> 100:1 linear
Total system power consumption	< 40 W, typical < 25 W
Operating temperature	10 - 40 °C
Laser head dimensions [mm]	95x60x40
Laser head dimensions [inches]	3.8x2.4x1.6
Controller (CDRH) dimensions [mm]	190x67x52
Controller (CDRH) dimensions [inches]	7.51x2.63x2.04
Controller (OEM) dimensions [mm]	190x67x25
Controller (OEM) dimensions [inches]	7.51x2.63x1.00



Accessories & Options

Laser Heatsink
Fiber coupling
Customised interface cable
RS232 communication cable

The 561 nm DPSSL is a continuous-wave diode-pumped solid-state laser device operating at a fixed wavelength of 561 nm. The laser has a compact package and emits a high quality laser beam with stable characteristics over a wide range of operating conditions. Single-longitudinal mode operation provides a narrow spectral bandwidth and long coherence length. The laser is designed and manufactured to ensure a high level of reliability.

The 561 nm DPSSL laser is intended for stand-alone use in laboratory environment or for integration as OEM component in equipment for applications including confocal microscopy, laser scanning microscopy, medical diagnosis and spectroscopy.

Specifications

Wavelength	561 nm
Output power	10, 25, 50, 75 & 100 mW
Spatial mode	TEM ₀₀ , M ² <1.1
Beam diameter at aperture	700µm
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%, typical < 0.2%
Long-term stability (8 h)	< 3%
Beam pointing stability (over 10-40°C)	< 10µrad / °C
Polarization ratio	> 100:1
Total system power consumption	< 40 W, typical < 25 W
Operating temperature	10 - 40 °C
Laser head dimensions [mm]	95x60x40
Laser head dimensions [inches]	3.8x2.4x1.6
Controller (CDRH) dimensions [mm]	190x67x52
Controller (CDRH) dimensions [inches]	7.51x2.63x2.04
Controller (OEM) dimensions [mm]	190x67x25
Controller (OEM) dimensions [inches]	7.51x2.63x1.00



Accessories & Options

Laser Heatsink
 Fiber coupling
 Customised interface cable
 RS232 communication cable
 Centered beam output option available

The 491 nm DPSSL is a continuous-wave diode-pumped solid-state laser operating at a fixed wavelength of 491 nm. The laser has a compact package and emits a high quality laser beam with stable characteristics over a wide range of operating conditions. Single-longitudinal mode operation provides a narrow spectral bandwidth and long coherence length. The laser is designed and manufactured to ensure a high level of reliability.

The 491 nm DPSSL 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 Argon-Ion Laser and low power consumption makes the 491 nm DPSSL 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 & 100 mW
Spatial mode	TEM ₀₀ , M ² <1.1
Beam diameter at aperture	700µm
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)	< 10µrad / °C
Polarization ratio	> 100:1
Total system power consumption	< 40 W, typical < 25 W
Operating temperature	10 - 40 °C
Laser head dimensions [mm]	105x70x38
Laser head dimensions [inches]	4.1x2.8x1.5
Controller (CDRH) dimensions [mm]	190x67x52
Controller (CDRH) dimensions [inches]	7.51x2.63x2.04
Controller (OEM) dimensions [mm]	190x67x25
Controller (OEM) dimensions [inches]	7.51x2.63x1.00



Accessories & Options

Laser Heatsink
 Fiber coupling
 Customised interface cable
 RS232 communication cable