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MINIATURIZED LASER MODULE COMPLETE WITH CONTROLLER AND USB POWER SUPPLY IN AN INCREDIBLY SMALL PACKAGE

## **KEY FEATURES:**

- \* Incredibly small yet fully featured
- \* Output powers up to 75 mW
- \* Powered via USB: no extra power
- adapter required
- \* Control Software Ltunes included



## The laser module is available in two versions:

- the Lambda Mini Evo emits a free collimated TEMoo laser beam
- the Lambda Mini Fiber couples the beam into an optical fiber



Wavelength nm	Maximum output power mW
405	15, 50
450	75
488	50
515	25
520	50
640	75
660	75
685	40
785	75
830	50



The Lambda Mini Fiber includes an 80 cm single mode optical fiber with an FC-PC or FC-APC connector. The fiber is factory-aligned and permanently attached. Polarizationmaintaining or multi-mode fibers are optionally available. Please contact our sales team for further information.

Wavelength nm	Maximum output power mW
400	30
405	15, 50
445	30, 50
460	50
488	30
520	30, 50
635	30, 50
660	50
670	50
705	15
730	15
785	50
820	50
830	50
905	50
940	50
1064	15
1310	10
1550	10

The actual emission wavelength may deviate from the specified wavelength by up to  $\pm$  10 nm (Lambda mini FIBER)

The actual emission wavelength may deviate from the specified wavelength by up to  $\pm$  5 nm (Lambda mini EVO)

## Beam specifications for Lambda Mini EVO

Beam diamter	1.1 x 2.2 to 1.2 x 2.8
	(depending on wavelength
Divergence	< 0.9 mrad
Spatial beam mode	TEMoo
Polarization	linear, > 100:1
	< 5mrad and < 0.1 mm
Beam alignment	(compared to base mount)
Pointing stability	< 5 μrad/K

## General specifications

Dimension	40.0 x 25.0 x 25.0 mm (technical
	drawing available)
Weight	41g
Warm-up time	5 sec
Noise	< 2% RMS
Power stability	< 2% (10h) under stable
	environmental conditions
Drive mode	active current control
CDRH classification	3b
Operating temp.	0°C to 45°C (non-condensing)
Storage temp.	-25°C to 70°C



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All operating parameters can be monitored and controlled from a PC using the Ltune laser control software for Windows. Alternatively, the laser can easily be controlled from your own application software. Please refer to the user manual for a detailed description of the communication protocol. You can find downloads on our website

Please contact us if your requirements are not matched by these specifications. Custom modifications are available for any quantities. All specifications are subject to change without notice. The latest versions can be found on our website.