

DATASHEET

LBX-633S

Laser Diode

Optical characteristics *

Emission wavelength	632.5 nm (± 0.5 nm)	
Wavelength stability over 8 hours and ±3°K	≤ 10 pm	
Linewidth	≤100 MHz	
Coherence Length	≥ 1 m typ.	
Output power	Free space	Fiber coupled
	40 mW	20 mW
Control mode(s)	Automatic Current Control (ACC)	
Power stability over 8 hours and within ±3k	± 1%	
Power adjustment	optional with L1C-MPA	
Optical noise %RMS, 10Hz - 20MHz bandwidth	≤ 0.2%	

Transverse singlemode free-space beam

0.4 ± 0.2 mm

 3 ± 1 mrad

≤ 1.9

≥ 65%

50:1

SM and PM Fiber

FC/PC, FCP8 on demand

≥ 50%

100:1

FC-APC

±2%

2.0 m

linear, vertical at +/-5°

Beam waist diameter (typ)

at 1/e², 50mm from output

Beam divergence

Beam circularity,

extinction ratio (typ)

Fiber coupling option

Polarization state

Specifications

Coupling Efficiency

Polarization Ratio

Available optical

over 8 hours and within ±3k

(PMF only)

connector Power stability

Fiber length

in far field

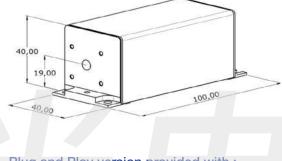
Polarization

at 1/e2, full angle, in far field

Beam quality factor (M²)



System specifications



Plug and Play version provided with :

- ControlBoxx
- Power supply

Other options

- L1C-MPA and L1C-AOM •
- Electro-mechanical shutter
 - Heat sink

General specifications

	Plug and Play version	OEM version
Compliance	CE FDA 21 CFR 1040.10/1040.1	FDA 21 CFR 1040.10 / 1040.11
Operating temperature	10 - 38°C ambiant air with optional heat sink	10 - 50°C baseplate
Power consumption	≤ 25 W	≤ 10 W
Storage temperature	0 to 60°C	
Supply voltage	100 to 240 VAC external power supply	5 to 12 VDC
Warm-up time	≤ 2 minutes	
Interfaces	USB, RS-232, dedicated electronic interface	

*specification at nominal power Warranty : 12 months from shipment date



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Oxxius operates a continuous improvement programme which can result in specifications being modified without notice.

MM Fiber (50 µm, 0.22 NA) ≥ 80%

AR-coated SMA

n/a

FC-APC

±2%

2.0 m