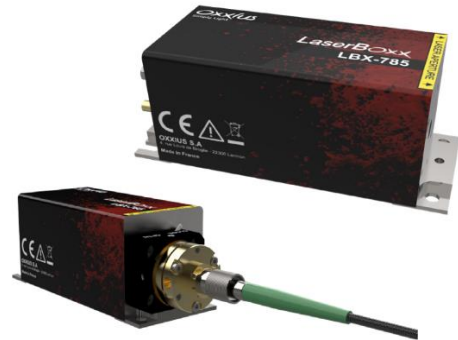


LBX-808

Diode-base laser source



Optical characteristics (*)

Emission wavelength (and tolerance) 808 nm ± 10 nm
 Linewidth, FWHM ≤ 1.5 nm

Optical output power →
 Part number ↓
 LBX-808-200-CSB

Free space	Fiber-coupled output	
	Single mode fiber	Multi mode fiber
200 mW	140 mW	160 mW

Power stability over 8 hours, temperature within +/-3°C ± 1.0%
 Power adjustment range 0 to 100%
 Control modes Automated power control (APC)
 Automated current control (ACC)
 Optical noise, %RMS, over a 20Hz-20MHz bandwidth ≤ 0.2%

Modulation functions

Analog modulation
 Rise / fall time ≤ 200 ns
 -3dB modulation bandwidth ≥ 2.5 MHz
Digital modulation
 Rise / fall time ≤ 5 ns
 -3dB modulation bandwidth ≥ 150 MHz

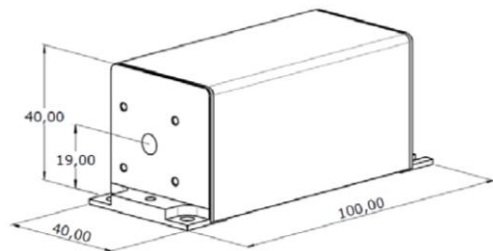
Transverse singlemode free-space beam

Beam waist diameter at 1/e², 50mm from output aperture 0.7 mm
 Beam divergence at 1/e², far field 1.5 mrad
 Beam quality factor M² ≤ 1.25
 Beam circularity, in far field ≥ 90%
 Polarization state Linear, vertical at ±5°
 Polarization extinction ratio ≥ 50:1

Fiber coupling options

Part number	ACX-FCPM	ACX-FCMM-R50 50µm core, 0.22 N.A.
Output power	140 mW	160 mW
Power stability over 8 hours, temperature within +/-3°C	± 2.0%	± 2.0%
Polarization extinction ratio (ACX-FCPM only)	≥ 50:1	n/a
Fiber output connector	FC/APC	FC/APC
Fiber length	2 m	2 m

Mechanical drawings



Plug and Play version provided with:

- "ControlBoxx" controller
- Manual shutter
- Power supply

Options

- Electro-mechanical shutter
- Heat sink
- Clean-up filter

General specifications

	Plug&Play version	OEM version
Compliance	CE FDA 21 CFR 1040.10/11	FDA 21 CFR 1040.10/11
Operating temperature	10 - 38°C, ambient air with optional heat sink	10 - 50°C, baseplate
Power consumption	≤ 10 W	
Storage temperature	0°C to 60°C	
Supply voltage	100 to 240 VAC power supply provided	5V-12V DC
Warm-up time	≤ 2 minutes	
Interfaces	USB, RS-232, dedicated electronic interface	
Warranty	12 month from shipment date	

(*) Specifications at nominal power



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

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