

LBX-660

Diode based laser source

Optical characteristics *

Emission wavelength 660 nm (-8/+5 nm tolerance)

Linewidth, FWHM $\leq 1.2 \text{ nm}$

Part number	Free space output	Fiber-coupled output	
		Single mode	Multi mode fiber
LBX-660-100-CSB-(OE/PPA)	100 mW	70 mW	80 mW

Power stability $\pm 0.5\%$

over 8 hour, temperature within +/-3°C

Power adjustment range 0 to 100%

Control modes Automatic Power Control (APC)
Automatic Current Control (ACC)

Optical noise $\leq 0.2\% \text{ rms}$
10 Hz-20 MHz bandwidth



External modulations

Analog Modulation

Rise / fall time $\leq 150 \text{ ns}$

-3dB modulation bandwidth $\geq 3 \text{ MHz}$

Digital Modulation

Rise / fall time $\leq 2 \text{ ns}$

-3dB modulation bandwidth $\geq 150 \text{ MHz}$

Transverse singlemode free-space beam

Beam diameter (typ) at $1/e^2$,
5 cm from the beam aperture 1 mm

Beam divergence at $1/e^2$
full beam, in far field 1.3 mrad

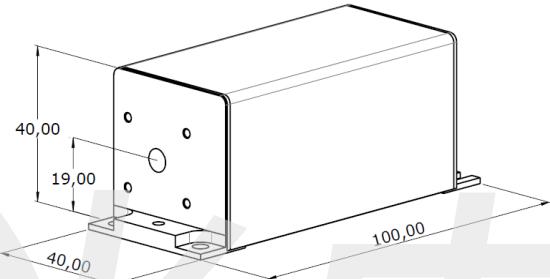
Beam quality factor $M^2 \leq 1.25$

Beam circularity, in far field $\geq 90\%$

Polarization state Linear, vertical at $\pm 5^\circ$

Polarization $\geq 100:1$

Mechanical drawings



Plug and Play version provide with:

- ControlBoxx controller
- Manual shutter
- DC power supply

Available options

- OPT-SHTE-LCX Electro-mechanical shutter
- ACX-HTSK-1 Heat sink for operation in ambient air up to 38°C
- ACX-EXK Flange for improved stability
- OPT-CLUP-660 Clean-up filter

Fiber coupling options **

	ACX-FCSMUV or ACX-FCPMUV	ACX-FCMM-R50
Power stability over 8 hours and within $\pm 3\%$	$\pm 2.0\%$	$\pm 2.0\%$
Fiber optical characteristics 3.5μm core diameter 0.11 N.A	3.5μm core diameter 0.11 N.A	50μm core diameter 0.22 N.A
Polarization extinction ratio (ACX-FCPM only)	$\geq 100:1$	n/a
Fiber output connector	FC/APC	FC/APC
Fiber length	2 m	2 m

Warranty : 12 months from shipment date

*Specifications at nominal power

** Variant are available on demand

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AVOID EXPOSURE TO BEAM

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