

LBX-1064

Laser Diode

Optical characteristics *

Emission wavelength 1064 nm (±10 nm)

Linewidth ≤ 1.2 nm

Output power Free space Fiber coupled

200 mW 140 mW

Control mode(s) Automatic Current Control (ACC)

Power stability
over 8 hours and within ±3k

± 0.8%

Power adjustment range 0 - 100%

Optical noise %RMS, 10Hz - 2 MHz bandwidth ≤ 0.8%

Transverse singlemode free-space beam

Beam waist diameter (typ) at 1/e², 50mm from output aperture 0.9 mm

Beam divergence et 1/c² full angle in for fold ≤ 1.9 mrad

Beam quality factor (M^2) ≤ 1.25

Beam circularity, ≥ 90%

Polarization extinction ratio (typ) 50:1

Polarization state linear, vertical at +/-5°

- Modulation functions

Digital Modulation

Max modulation frequency 150 MHz

Rise/fall time, 10%-90% $\leq 2 \text{ ns}$

Analog Modulation

Bandwidth $\geq 3 \text{ MHz}$

3dB cut-off frequency, ACC mode

Rise/fall time, 10%-90% ≤ 150 ns

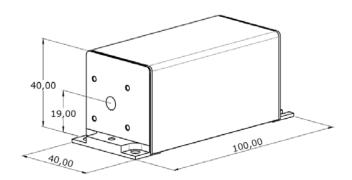
Fiber coupling option

	SM and PM Fiber	MM Fiber (50 µm, 0.22 NA)
Coupling Efficiency	≥ 70%	≥ 80%
Polarization Ratio (PMF only)	100 : 1	n/a
Fiber Output Connector	FC-APC FC/PC, FCP8 on demand	FC-APC
Power stability over 8 hours and within ±3k	±2%	±2%

2.0 m



Mechanical drawings



- Plug and Play version provided with:

- ControlBoxx
- Power supply

Options

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

General specifications

	Plug and Play version	OEM version
Compliance	CE FDA 21 CFR 1040.10/1040.11	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	

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

CONTACT US

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Fiber length

2.0 m