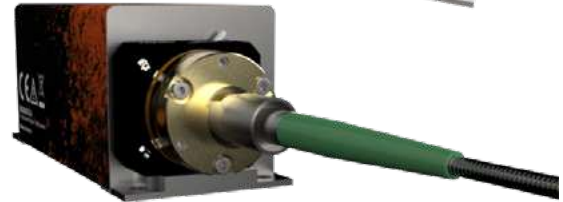


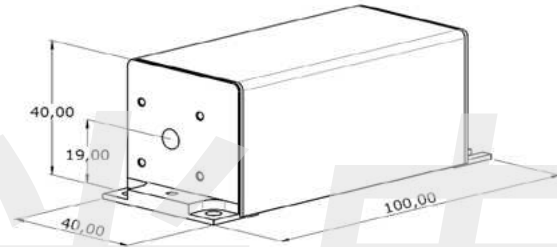
LBX-638-HPE Laser Diode



Optical characteristics *

Emission wavelength	638 nm	
Wavelength range	± 10 nm	
Linewidth	≤ 5 nm; 2 nm typical	
Output power	Free space	Fiber coupling
	1100 mW	880 mW
Control mode(s)	Automatic Power Control (APC) Automatic Current control (ACC)	
Power stability over 8 hours and within ±3k	± 1%	

System specifications



— Transverse multimode free-space beam

Beam dimensions (typ) at 1/e ² , at laser aperture	1.3 X 4.5 mm
Beam divergence at 1/e ² , full angle, in far field	7.0 X 0.2 mrad

— Modulation functions

Analog Modulation	
0-5V input voltage	
Bandwidth 3dB cut-off frequency, ACC mode	DC-1 MHz
Rise/fall time, 10%-90%	≤ 500 ns

— Plug and Play version provided with :

- ControlBoxx

Other options

- Heatsink. Including Power Supply
- L6Cc-HPE wavelength combiner compatibility
- Electro-mechanical shutter
- External modulator
- Specific beam shaping

Fiber coupling option

	MM Fiber (50 μm, 0.22 NA)
Coupling Efficiency	≥ 80%
Available optical connector	AR-coated SMA FC-APC
Power stability over 8 hours and within ±3k	±2%
Fiber length	2.0 m

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

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 ambient 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	



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