

# LBX-520-HPE Laser Diode

## Optical characteristics \*

<b>Emission wavelength</b>	520 nm	
<b>Wavelength range</b>	± 10 nm	
<b>Linewidth</b>	≤ 5 nm; 2 nm typical	
<b>Output power</b>	<b>Free space</b>	<b>Fiber coupled</b>
	800 mW	640 mW
<b>Control mode(s)</b>	Automatic Power Control (APC) Automatic Current control (ACC)	
<b>Power stability</b> over 8 hours and within ±3k	± 1%	

## — Transverse multimode free-space beam

**Beam dimensions (typ)**  
at 1/e<sup>2</sup>, at laser aperture

2.0 X 0.5 mm

**Beam divergence**  
at 1/e<sup>2</sup>, full angle, in far field

0.2 X 2.6 mrad

## — Modulation functions

### Analog Modulation

**0-5V input voltage**

**Bandwidth** DC-1 MHz  
3dB cut-off frequency, ACC mode

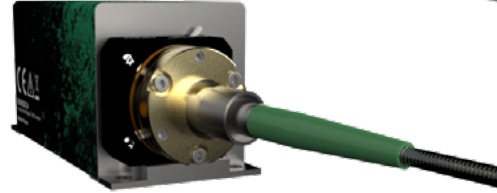
**Rise/fall time, 10%-90%** ≤ 200 ns

## Fiber coupling option

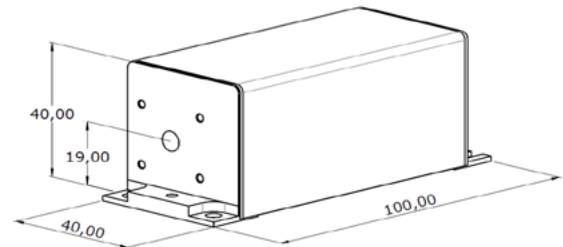
	<b>MM Fiber</b> (50 μm, 0.22 NA)
<b>Coupling Efficiency</b>	≥ 80%
<b>Available optical connector</b>	AR-coated SMA FC-APC
<b>Power stability</b> over 8 hours and within ±3k	±2%
<b>Fiber length</b>	2.0 m

Warranty : 12 months from shipment date

\*specification at nominal power



## System specifications



## — 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

## General specifications

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



## CONTACT US

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