

# LBX-405-HPE

Laser Diode

## Optical characteristics \*

Emission wavelength	405 nm	
Wavelength range	± 5 nm	
Linewidth	≤ 5 nm; 2 nm typical	
Output power	<b>Free space</b>	<b>Fiber coupled</b>
	900 mW	720 mW
	1200 mW	960 mW
Control mode(s)	Automatic Power Control (APC) Automatic Current control (ACC)	
Power stability over 8 hours and within ±3k	± 1%	

## — Transverse multimode free-space beam

Beam dimensions (typ) at 1/e <sup>2</sup> , at laser aperture	2.6 X 1.2 mm
Beam divergence at 1/e <sup>2</sup> , full angle, in far field	0.2 X 2.6 mrad

## — Modulation functions

### Analog Modulation

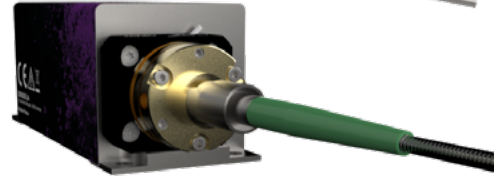
0-5V input voltage	
Bandwidth	DC-1 MHz
<small>3dB cut-off frequency, ACC mode</small>	
Rise/fall time, 10%-90%	≤ 200 ns

## Fiber coupling option

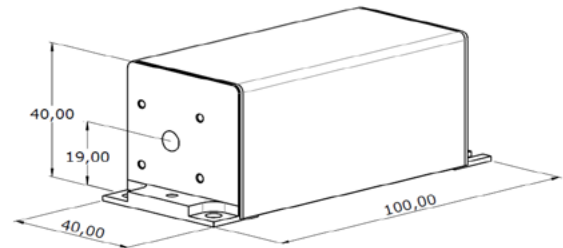
	<b>MM Fiber</b> (50 μm, 0.22 NA)
Coupling Efficiency	≥ 80%
Available optical connector	AR-coated SMA FC-APC
Power stability over 8 hours and within ±3k	±2%
Fiber length	2.0 m

Warranty : 12 months from shipment date

\*specification at nominal power



## 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
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	



## CONTACT US

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