

# LBX-375-HPE Laser Diode

## Optical characteristics \*

<b>Emission wavelength</b>	375 nm ( $\pm$ 5 nm)	
<b>Linewidth</b>	$\leq$ 5 nm; 2 nm typical	
<b>Output power</b>	<b>Free space</b>	<b>Fiber coupled</b>
	200 mW	160 mW
	400 mW	320 mW
<b>Control mode(s)</b>	Automatic Power Control (APC)	
<b>Power stability</b> over 8 hours and within $\pm$ 3k	$\pm$ 1%	

### — Transverse multimode free-space beam

<b>Beam dimensions (typ)</b> at $1/e^2$ , at laser aperture	3.0 X 1.4 mm
<b>Beam divergence</b> at $1/e^2$ , full angle, in far field	1.4 X 2.2 mrad

### — Modulation functions

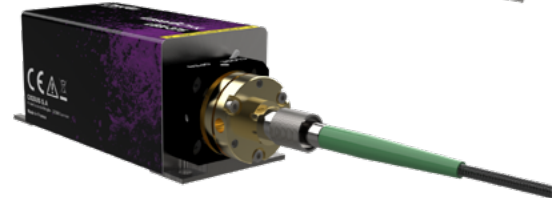
#### Analog Modulation

<b>0-5V input voltage</b>	
<b>Bandwidth</b> 3dB cut-off frequency, APC mode	DC-1 MHz
<b>Rise/fall time, 10%-90%</b>	$\leq$ 300 ns

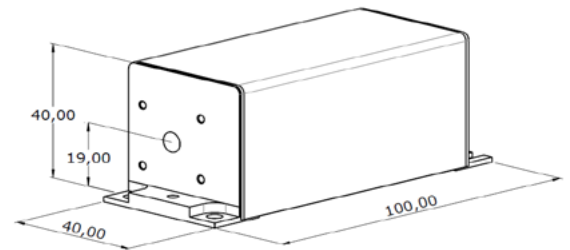
## Fiber coupling option

	<b>MM Fiber</b> (50 $\mu$ m, 0.22 NA)
<b>Coupling Efficiency</b>	$\geq$ 80%
<b>Available optical connector</b>	AR-coated SMA FC-APC
<b>Power stability</b> over 8 hours and within $\pm$ 3k	$\pm$ 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>	$\leq$ 25 W	$\leq$ 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>	$\leq$ 2 minutes	
<b>Interfaces</b>	USB, RS-232, dedicated electronic interface	



## CONTACT US

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