

LBX-375-HPE Laser Diode

Optical characteristics *

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

— Transverse multimode free-space beam

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

— Modulation functions

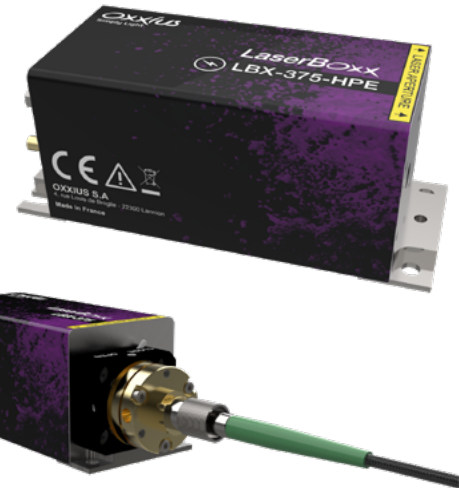
Analog Modulation

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

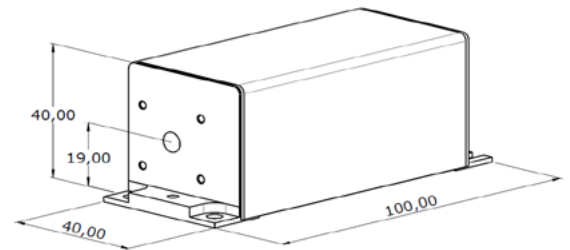
Fiber coupling option

	MM Fiber (50 μ m, 0.22 NA)
Coupling Efficiency	\geq 80%
Available optical connector	AR-coated SMA FC-APC
Power stability over 8 hours and within \pm 3k	\pm 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	\leq 25 W	\leq 10 W
Storage temperature	0 to 60°C	
Supply voltage	100 to 240 VAC external power supply	5 to 12 VDC
Warm-up time	\leq 2 minutes	
Interfaces	USB, RS-232, dedicated electronic interface	



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