

LBX-405-HPE

Laser Diode

Optical characteristics *

| | | |
|--|--|----------------------|
| Emission wavelength | 405 nm | |
| Wavelength range | ± 5 nm | |
| Linewidth | ≤ 5 nm; 2 nm typical | |
| Output power | Free space | Fiber coupled |
| | 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 ² , at laser aperture | 2.6 X 1.2 mm |
| Beam divergence at 1/e ² , full angle, in far field | 0.2 X 2.6 mrad |

— Modulation functions

Analog Modulation

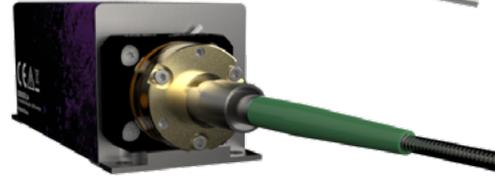
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|--|----------|
| 0-5V input voltage | |
| Bandwidth | DC-1 MHz |
| <small>3dB cut-off frequency, ACC mode</small> | |
| Rise/fall time, 10%-90% | ≤ 200 ns |

Fiber coupling option

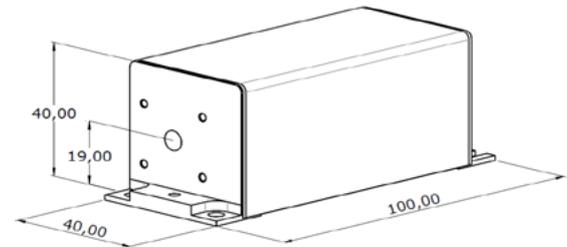
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|--|-------------------------------------|
| | MM Fiber (50 μm, 0.22 NA) |
| Coupling Efficiency | ≥ 80% |
| Available optical connector | AR-coated SMA FC-APC |
| Power stability over 8 hours and within ±3k | ±2% |
| Fiber length | 2.0 m |

Warranty : 12 months from shipment date

*specification at nominal power



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 | |



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