

# LPX-561L

DPSS

## Optical characteristics \*

Emission wavelength 561.4 nm ( $\pm 0.4$  nm tolerance)

Linewidth, FWHM  $\leq 0.1$  nm

Part number	Free space output	Fiber-coupled output	
		Single mode	Multi mode fiber
LBX-561L-50-CSB-(OE/PPA)	50 mW	35 mW	40 mW
LBX-561L-100-CSB-(OE/PPA)	100 mW	70 mW	80 mW
LBX-561L-150-CSB-(OE/PPA)	150 mW	105 mW	120 mW
LBX-561L-200-CSB-(OE/PPA)	200 mW	140 mW	160 mW

Power stability  $\pm 1\%$   
over 8 hour, temperature within  $\pm 3^\circ\text{C}$

Power adjustment range 0 to 100%

Control modes Automatic Power Control (APC)

Optical noise  $\leq 0.2\%$  rms  
10 Hz-20 MHz bandwidth

## External modulations

### Analog Modulation

	L1C-MPA option	L1C-AOM option
Rise / fall time	$\leq 1$ ns	$\leq 300$ ns
-3dB modulation bandwidth	-	$\geq 3$ MHz

### Digital Modulation

	L1C-MPA option	L1C-AOM option
Rise / fall time	$\leq 30$ ms	$\leq 300$ ns
-3dB modulation bandwidth	-	$\geq 3$ MHz

## Transverse singlemode free-space beam

Beam diameter (typ) at  $1/e^2$ ,  
5 cm from the beam aperture 0.7 mm

Beam divergence at  $1/e^2$   
full beam, in far field 1 mrad

Beam quality factor  $M^2 \leq 1.1$

Beam circularity, in far field  $\geq 90\%$

Polarization state Linear, vertical at  $\pm 5^\circ$

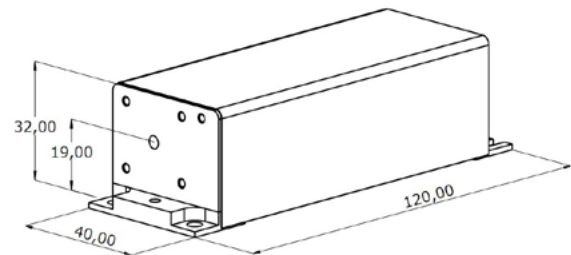
Polarization  $> 1000 : 1$

## 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 to 38°C ambient air with optional heat sink	10 to 50°C baseplate
Power consumption	20 W max.	
Storage temperature	0 to 60°C	
Humidity	Up to 90%RH, non-condensing	
Supply voltage	100 to 240 VAC external power supply	5 to 12 VDC
Warm-up time	$\leq 10$ minutes	
Interfaces	USB ControlBoxx controller	USB, RS-232, electronic interface



## Mechanical drawings



## Plug and Play version provide with:

- ControlBoxx controller
- Manual shutter
- DC power supply

## Available options

- ACX-HTSK-1 Heat sink for operation in ambient air up to 38°C
- ACX-HTSK-7 for operation in ambient air up to 46°C
- OPT-CLUP-561 Clean-up filter
- OPT-SHTE-LCX Electro-mechanical shutter
- L1C-MPA for power adjustment
- L1C-AOM for high speed modulation

## Fiber coupling options \*\*

	ACX-FCSMUV or ACX-FCPM	ACX-FCMM-R50
Power stability over 8 hours and within $\pm 3k$	$\pm 2.0\%$	$\pm 2.0\%$
Fiber optical characteristics	3.5 $\mu\text{m}$ core diameter 0.11 N.A	50 $\mu\text{m}$ core diameter 0.22 N.A
Polarization extinction ratio (ACX-FCPM only)	$> 1000 : 1$	n/a
Fiber output connector	FC/APC	FC/APC
Fiber length	2 m	2 m

Warranty : 18 months from shipment date

\*Specifications at nominal power

\*\* Variant are available on demand



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