

LPX-640L

DPSS

Optical characteristics *

Emission wavelength	639.7 nm (± 0.5 nm)	
Linewidth	≤ 0.5 nm	
Output power	Free space	Fiber coupled
	300 mW	210 mW
	500 mW	350 mW
Control mode(s)	Automatic Power Control (APC)	
Power stability over 8 hours and within $\pm 3k$	$\pm 1\%$	
Power adjustment range	0 - 100%	
Optical noise %RMS, 10Hz - 2 MHz bandwidth	$\leq 2\%$	

— Transverse singlemode free-space beam

Beam waist diameter (typ) at $1/e^2$, 50mm from output aperture	0.7 mm (± 0.1 mm)
Beam divergence at $1/e^2$, full angle, in far field	1.3 mrad
Beam quality factor (M^2)	≤ 1.1
Beam circularity, in far field	$\geq 90\%$
Polarization extinction ratio (typ)	$>1000:1$
Polarization state	linear, vertical at $\pm 5^\circ$

— Modulation functions

Analog modulation

Bandwidth at -3dB : 1,5 kHz

Rise/Fall time : 20 μ s

Optional : Fast modulation with L1C-AOM

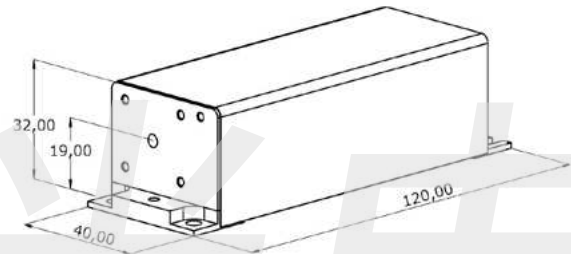
Bandwidth at -3dB : 3 MHz

Fiber coupling option

	SM and PM Fiber	MM Fiber (50 μ m, 0.22 NA)
Coupling Efficiency	$\geq 70\%$	$\geq 80\%$
Polarization Ratio (PMF only)	100 : 1	n/a
Fiber Output Connector	FC/APC, FCP8 on demand	FC/APC
Power stability over 8 hours and within $\pm 3k$	$\pm 2\%$	$\pm 2\%$
Fiber length	2.0 m	2.0 m



System specifications



— Plug and Play version provided with :

- Electro-mechanical shutter
- ControlBoxx
- Power supply

Other options

- Heat sink

General specifications

	Plug and Play version	OEM version
Compliance	CE FDA 21 CFR 1040.10/1040.11	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	≤ 20 W
Storage temperature	0 to 60°C	
Supply voltage	100 to 240 VAC external power supply	5 to 12 VDC
Warm-up time	≤ 5 minutes	
Interfaces	USB, RS-232, dedicated electronic interface	

Warranty : 18 months from shipment date



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