LCX-553S

DPSS

Optical characteristics *

Emission wavelength	553.0 nm (±0.4 nm)
Wavelength stability over 8 hours and ±3°K	≤ 1 pm
Linewidth	≤1 MHz
Coherence Length	≥ 100 m

Output power	**Free space**	**Fiber coupling**
	50 mW	35 mW
	100 mW	70 mW
	200 mW	140 mW

Control mode(s)	Automatic Power Control (APC)
Power stability over 8 hours and within ±3k	±1%
Power adjustment range	Optional with L1C-MPA/AOM
Optical noise %RMS, 10Hz - 20 MHz bandwidth	≤ 0.2%

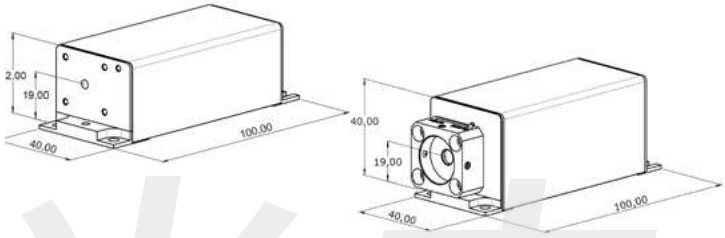
Transverse singlemode free-space beam

Beam waist diameter (typ) at 1/e², 50mm from output aperture	0.7 mm (±0.1 mm)
Beam divergence at 1/e², full angle, in far field	≤ 1.0 (±0.2 mrad)
Beam quality factor (M²)	≤ 1.1
Beam circularity, in far field	≥ 90%
Polarization extinction ratio (typ)	1000:1
Polarization state	linear, vertical at +/-5°

Fiber coupling option

Specifications	**SM and PM Fiber**	**MM Fiber** (50 µm, 0.22 NA)
Coupling Efficiency	≥ 70%	≥ 80%
Polarization Ratio (PMF only)	100 : 1	n/a
Fiber Output Connector	FC-ACPC FC/PC, FCP8 on demand	FC-APC
Power stability over 8 hours and within ±3k	±2%	±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 ambiant 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	≤ 10 minutes	
Interfaces	USB, RS-232, dedicated electronic interface	

*Specifications at nominal power

Warranty : 18 months from shipment date

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