

LCX-532S

DPSS laser

Optical characteristics *

Emission wavelength	532.3 nm (± 0.3 nm tolerance)
Spectral linewidth, FWHM	≤ 1 MHz
Wavelength stability over 8 hours, temperature within $+/-3^{\circ}\text{C}$	≤ 1 pm
Coherence length	≥ 100 m
Side mode suppression ratio	≥ 30 dB

— Optical power

Part number	Free space output	Fiber-coupled output	
		Single mode	Multi mode fiber
LBX-532S-50-CSB-(OE/PPF)	50 mW	35mW	40 mW
LBX-532S-100-CSB-(OE/PPF)	100 mW	70 mW	80 mW
LBX-532S-150-CSB-(OE/PPF)	150 mW	105 mW	120 mW
LBX-532S-200-CSB-(OE/PPF)	200 mW	140 mW	160 mW

Power stability $\pm 1\%$ over 8 hour, temperature within $+/-3^{\circ}\text{C}$ **Control modes** Automatic Current Control (ACC)**Optical noise** $\leq 0.2\%$ rms
10 Hz-20 MHz bandwidth

— External modulation

Analog Modulation	L1C-MPA option	L1C-AOM option
Rise / fall time	≤ 1 s	≤ 300 ns
-3dB modulation bandwidth	-	≥ 3 MHz
Digital Modulation		
Rise / fall time	≤ 30 ms	≤ 300 ns
-3dB modulation bandwidth	-	≥ 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

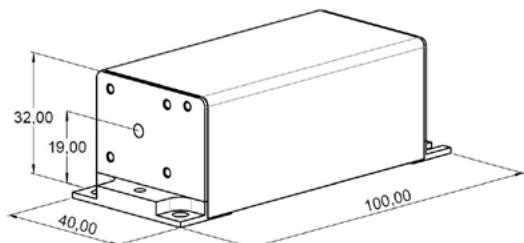
	Plug and Play version	OEM version
Compliance	CE FDA 21 CFR 1040.10/1040.11	FDA 21 CFR 1040.10 / 1040.11
Operating temperature	10 to 38°C ambiant air with optional heat sink	20 to 35°C baseplate
Power consumption	20 W max.	
Storage temperature	0 to 60°C	
Humidity	Up to 90%RH, non-condensing	
Supply voltage	100 to 240 VAC external power supply	5 to 12 VDC
Warm-up time	≤ 2 minutes	
Interfaces	USB ControlBoxx controller	USB, RS-232, electronic interface



AVOID EXPOSURE TO BEAM



Mechanical drawings



Plug and Play version provide with:

- RemoteBoxx controller
- Manual shutter
- DC power supply

Available options

- ACX-HTSK-1 Heat sink for operation in ambient air up to 38°C
- 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 $\pm 3\%$	$\pm 2.0\%$	$\pm 2.0\%$
Fiber optical characteristics	3.5 μm core diameter 0.11 N.A	50 μm 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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