

DATASHEET

LCX-553L

DPSS

| Optical characteristics * | | | | |
|---------------------------|-------------------------------|--------------------------|--|--|
| Emission wavelength | 553.0 nm (±0.5 nm) | | | |
| Linewidth | ≤0.1 nm | | | |
| Output power | Free space | Fiber coupled | | |
| | 50 mW 100 mW 200 mW | 35 mW 70 mW 140 mW | | |
| Control mode(s) | Automatic Power Control (APC) | | | |

| Power stability over 8 hours and within ±3k | ±1% |
|--|------------------------------------|
| Power adjustment range | 30 - 100% 0 - 100% with L1C-MPA |
| Optical noise %RMS, 10Hz - 20 MHz bandwidth | ≤0.2% |

- 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 | 1.0 to 0.2 mrad |
| Beam quality factor (M ²) | ≤ 1.1 |
| Beam circularity, in far field | ≥ 90% |
| Polarization extinction ratio (typ) | 1000:1 |
| Polarization state | linear, vertical at +/-5° |

- Modulation functions

Optional

L1C-AOM

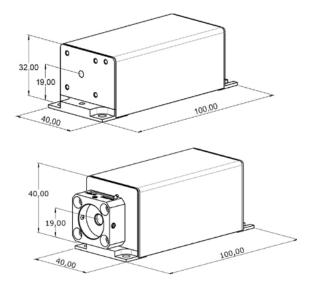
DC - 3 MHz

Fiber coupling option

| | 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-ACPCFC/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
- Clean-up filter

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 tempe- rature | 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 | |

Warranty : 18 months from shipment date *Specifications at nominal power

CONTACT US

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Oxxius operates a continuous improvement programme which can result in specifications being modified without notice.