



SUPERLUM
The driving pulse of SLD technology

SUPERLUM is the industry leading manufacturer of state-of-the-art, ultimate quality superluminescent diodes and light sources, semiconductor optical amplifiers and tuneable swept lasers

Master Oscillator Power Amplifier SLD Systems (MOPA)

The **Superlum MOPA-SLD** benchtop light sources are an ultra-high power SLD-based light sources featuring both high-power wide spectrum output and a weak sensitivity to optical feedback. This is achieved by using of a so-called MOPA (Master Oscillator Power Amplifier) configuration, in which output of a master SLD source is amplified by a wavelength-matched optical booster. Standard MOPA-SLD light sources are available at 850 nm. Custom wavelengths are available upon request. Most of the fiber-optic components used in MOPA-SLD light sources are built basing on the fast-axis-blocking technology that guarantees high values of the PER (Polarization Extinction Ratio) at the MOPA output (> 18 dB). Since 2018, OEM versions of MOPA-SLD light source modules are available in 12 V DC biased, 90 x 110 x 31 mm (w x l x h) cBLMD format. Call us for more details about OEM MOPA SLD.



Optical Specifications (Benchtop sources)

- Center Wavelength 850 ± 5 nm (MOPA-SLD-850)
- Optical Bandwidth (FWHM): 10–20 nm
- Spectral Ripple: < 2%
- Output Power: 50 mW (45 mW min)
- Maximum Allowed Optical Feedback: -10 dB
- Output Power Stability: < 0.5%
- Polarization Extinction Ratio: > 18 dB (20 dB typ)
- Optical Fiber Type: Corning PANDA PM 850
- Polarization Orientation in the Output Fiber: slow axis, aligned with the connector key
- Output Optical Connector: FC/APC type with narrow precision key (2.0 mm)

General Specifications (Benchtop sources)

- Power Requirements: 110 VAC, 50–60 Hz
- Power Consumption: 20 VA Max
- Warm-up Time: 10 min
- Operating Temperature Range: +15 °C... + 30 °C
- Storage Temperature Range: 0 °C... +40 °C
- Continuous Operation: 16 hrs/day
- Outline Dimensions (W x H x D): 257 x 170 x 325 mm
- Approximate Weight: 7 kg
- Warranty: 12 months



To get more information, please visit us by following this QR code:

www.superlumdiodes.com
www.superlum.ie

Superlum Diodes Ltd, Unit B3, Fota Point Enterprise Park, Carrigtwohill, CO.Cork, IRELAND.
Ph. +353-21-4533666 / Fax. +353-21-4533026 / E-mail: sales@superlum.ie