SUPERLUM — SLD-48-MP-920: medium-output-power SLD at 920 nm

Features:

- Low cost medium power modules at 920 nm
- Flat spectrum with negligible residual Fabry-Perot modulation depth
- Maximum secondary coherence subpeaks of −20 dB, −30 dB upon request.

Packages:

- **Fiber coupled:** DIL, Butterfly
- **Free space:** TOW

Additional & customized:

- PD monitors
- FC/APC terminated pigtails
- PM pigtails (slow mode orientation)

Specifications (Nominal Emitter Stabilization Temperature +25 °C)

Parameter	Min	Typ	Max
Output power ex SM fiber, emitter @ +25 °C, mW	1.5	3.0	–
Output power, Glass Window*, emitter @ +25 °C, mW	5.0	7.5	–
Forward current, mA	–	100	150
Forward voltage, V	–	–	2.2
Central wavelength, nm	910	920	930
Spectrum width, nm	–	20	–
Residual spectral modulation depth, %	–	1.0	2.0
Secondary coherence subpeaks, dB, (10 log)	–	−25	−20
Slow / fast polarization ratio (PM "polarized" modules)†, dB	5	10	–
Operating temperature (case)‡, °C	−55	–	+85
Cooler current, A	–	–	1.2
Cooler voltage, V	–	–	3.5

* TOW packaged SLDs;
† Pseudo-depolarized versions (light is launched into the fiber with its polarization oriented at 45° to the birefringent axes) are available upon request
‡ Butterfly packaged SLDs

The following part numbers should be used when **ordering**:

SLD-48(a)-MP-(c)-(d)-(e)-920,
where: (a) – 0 (free space) or 1 (fiber pigtailed), (c) – package type, (d) – SM (isotropic) or PM (polarization maintaining) fiber (pigtailed versions only), (e) – PD (if PD monitor is required).

Example: SLD-481-MP-DIL-SM-PD-920.

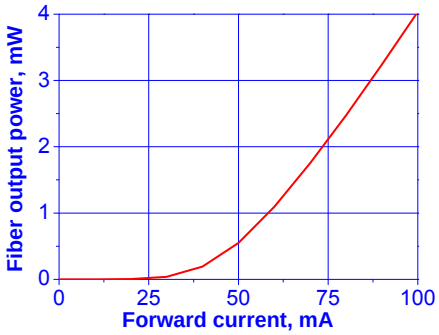
All specifications are subject to change without notice.

Applications:

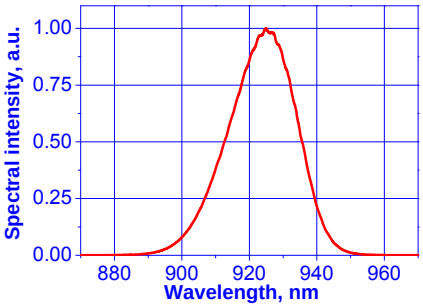
- Fiber optic sensors
- Optical coherence tomography
- Optical measurements

PERFORMANCE EXAMPLES

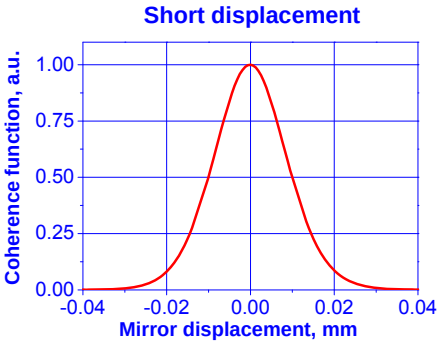
SLD-481-MP-SM - Light-current curve



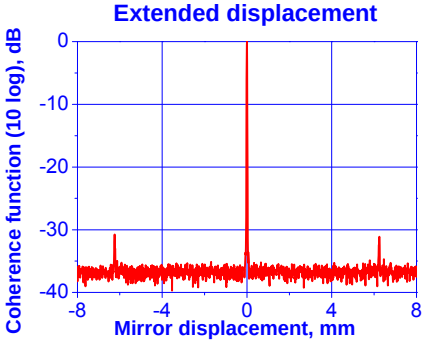
Spectrum, 3 mW ex SM fiber



Short displacement



Extended displacement



Mirror displacement = Optical path difference / 2

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