SUPERLUM — SLD-76-MP: Medium-Power SLDs at 1470-1630 nm

Features:

- central wavelength in the range from 1470 to 1630 nm
- three power categories
- wide spectrum with small Fabry-Perot modulation depth

Packages: DIL, DBUT, others on request

Additional & customized:

- PD monitors (for selected models)
- PM fiber pigtails (slow axis alignment; 45 degree orientation upon request)
- FC/APC terminated pigtails

Applications:

- optical sensing
- optical coherence tomography
- optical measurements

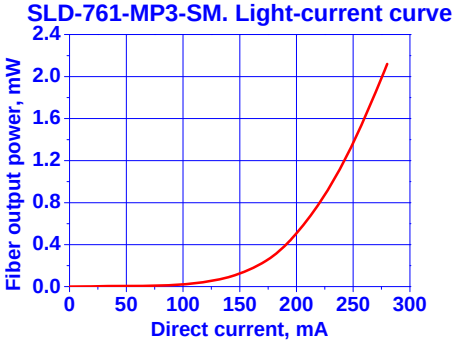
Specifications
(Nominal Emitter Stabilization Temperature +20 °C)

Parameter	Category	Min	Typ.	Max
Output power ex SM fiber, mW	MP1	0.35	0.5	-
	MP2	0.75	1.0	-
	MP3	1.5	2.0	-
Forward current, mA	All	-	-	300
Forward voltage, V	All	-	1.6	2.5
Central wavelength*, nm	All	1470 – 1630		
Spectrum width**, nm	All	40	45 – 70	
Residual spectral modulation depth, %	All	-	2.0	5.0
Secondary coherence subpeaks, dB (10 log)	All	-	-	−20
Slow / fast polarization ratio (PM modules)***, dB	All	5	10	-
Operating temperature (case) at full power, °C	All	−55	-	+70
Cooler current, A	All	-	-	1.2
Cooler voltage, V	All	-	-	3.5

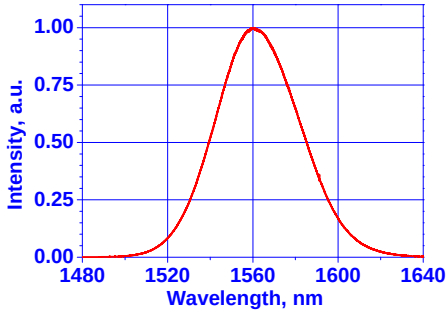
* Each specific wavelength is subject to availability
** Depending on central wavelength, please ask for details
***Pseudo-depolarized version (light is launched into the fiber with its polarization oriented at 45° to the birefringent axes) is available upon request

PERFORMANCE EXAMPLES

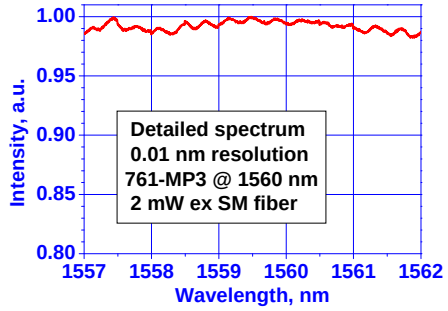
SLD-761-MP3-SM. Light-current curve



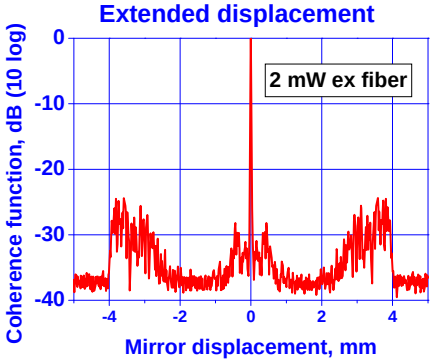
SLD-761-MP3-SM-1560. Spectrum



Detailed spectrum trace



Extended displacement



Mirror displacement = Optical path difference / 2

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

SLD-761-(b)-(c)-(d)-(f),
where:
(b) – power category (MP1, MP2 or MP3),
(c) – package type,
(d) – SM (isotropic) or PM (polarization maintaining),
(f) – required wavelength (in nanometers).

Example: SLD-761-MP2-DBUT-SM-1470.

All specifications are subject to change without notice.

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