

Features:

- visible 680 nm band SM fiber coupled SLD modules
- flat spectrum with negligible residual Fabry-Perot modulation depth
- maximum parasitic secondary coherence subpeaks intensity below -20 dB (10 log), maximum below -30 dB upon request

Applications:

- atomic force microscopy
- optical sensors
- optical coherence tomography
- optical measurements
- others

Packages:

- **fiber coupled** – DIL, Butterfly; uncooled “minibut” packages available upon request

Specifications (Nominal Emitter Stabilization Temperature +25 °C)

Parameter	Device	Min	Typ.	Max
Output power, mW, SM fiber pigtail	MP1	0.5	-	1.0
	MP2	1.0	-	2.0
Forward current*, mA	All	-	-	160
Forward voltage, V	All	-	-	2.8
Central wavelength**, nm	All	660	680	690
Spectrum width, FWHM, nm	All	7.0	8.5	
Residual spectral modulation depth***, %	All	-	1.0	2.0
Secondary coherence subpeaks*** (10 log), dB	All	-	-25	-20
Slow/fast polarization ratio **** (PM “polarized” modules), dB	All	7.5	10	-
Operating temperature range***** (case), °C	All	-55	-	+80
PD monitor photocurrent, µA	MP1	50	-	-
PD monitor photocurrent, µA	MP2	100	-	-
Cooler current, A	All	-	-	1.2
Cooler voltage, V	All	-	-	3.5

* It is not allowed to exceed maximum output power or maximum drive current, whatever happens first

** Center wavelength 680 nm is not guaranteed. Contact Superlum representative if you require a tighter tolerance of center wavelength.

*** Rated at minimum power, not guaranteed at maximum power of a particular power category

**** 45° Lyot-depolarized version available upon request

***** Butterfly packaged SLDs

Additional & customized:

- FC/APC termination of fiber pigtail

Following marking should be used for **ORDERING**:

SLD-261-MP(a)-(b)-(c)-PD

Where:

a – power category (MP1 or MP2)

b – package type DIL, DBUT, SBUT

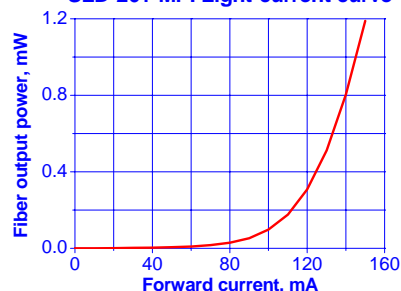
c – type of fiber, SM (isotropic) or PM (polarization maintain)

Example: SLD-261-MP1-DIL-SM-PD

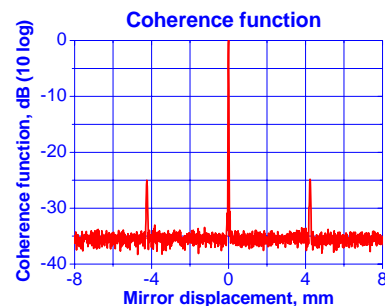
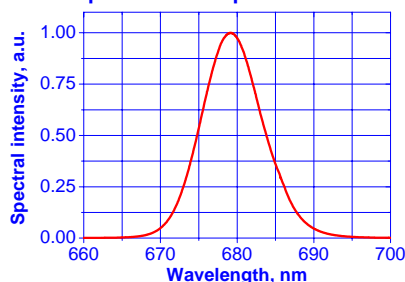
All specifications are subject to change without notice.

PERFORMANCE EXAMPLES

SLD-261-MP. Light-current curve



Spectrum example - 1mW ex fiber



Mirror displacement = Optical path difference / 2