

Features:

- **High Output power, 10 mW from SM fiber**
- very broad spectrum, 60 or 50 nm FWHM for HP1 or HP2 respectively
- flat spectrum with small Fabry-Perot modulation depth

Packages: DBUT; others on request

Additional & customized:

- PD-monitors
- PM fiber pigtails, polarized / depolarized output
- FC/APC terminated pigtails

Specifications

(Nominal Emitter Stabilization Temperature +20 °C)

Parameter	Category	Min	Typ	Max
Output power ex SM fiber, emitter @ +20 °C SLD-57-HP fiber pigtailed	HP1	4.0	5.0	-
	HP2	8.0	10.0	-
SLD direct current, mA	HP1	-	320	400
	HP2	-	400	500
Forward voltage, V	All	-	-	2.5
Peak wavelength, nm	All	1270	1300	1330
Spectrum width, nm	HP1	50	60*	-
	HP2	40	50*	-
Residual spectral modulation depth, %	All	-	2.5	5.0
Secondary coherence subpeaks (10 log), dB	All	-	-	-20
Slow / fast polarization ratio (PM "polarized" modules), dB**	All	5	10	-
Operation temperature range (case) at full power, °C	HP1	-55	-	+65
	HP2	-55	-	+60
Cooler current***, A	All	-	-	1.2
Cooler voltage***, V	All	-	-	3.5

* 50/60 nm spectral width may be guaranteed for HP2/HP1 upon request.

Please note that SLD spectrum width depends on drive current. Spectrum width increased with higher power.

** Lyot-depolarized version available upon request.

*** 2.5 A / 4 V TE cooler may be used to extend operation temperature range.

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

SLD-571-HP(N)-(c)-(d)-(e)

Where:

N=1 or 2 (for HP1 or HP2 respectively)

c=package type

d=SM (isotropic) or PM (polarization maintain)

e=PD-monitor

Example: SLD-571-HP2-DBUT-SM-PD

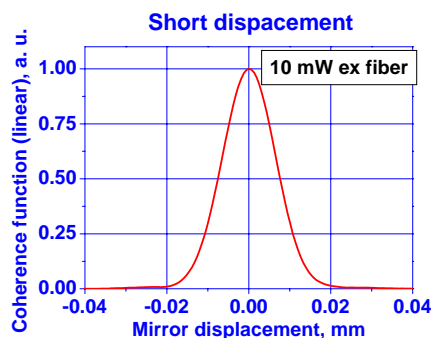
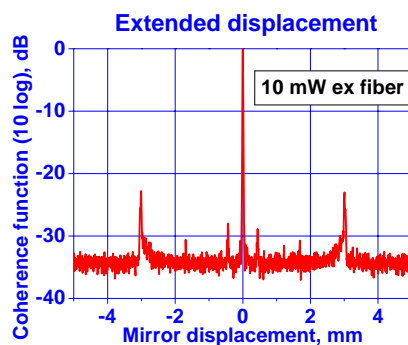
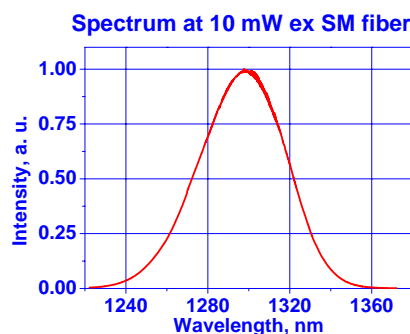
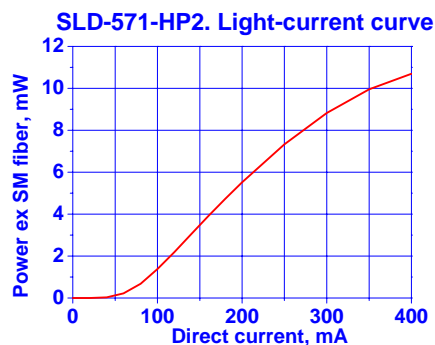
10⁻³ maximum feedback is allowed to run HP series SLDs safely at full power.

All specifications are subject to change without notice.

Applications:

- **optical sensing**
- **optical coherence tomography**
- **optical measurements**

PERFORMANCE EXAMPLES



Mirror displacement = Optical path difference / 2