

**Features:**

- very wide, 100 nm FWHM optical spectrum
- short coherence length
- high output power
- negligible residual Fabry-Perot modulation depth

**Packages:**

- **fiber coupled:** DIL, Butterfly
- **free space:** TOW

**Additional & customized:**

- PD - monitors
- FC/APC terminated pigtailed
- SM or PM pigtailed (polarized or depolarized output emission ex PM fiber)

**Specifications**

(Nominal Emitter Stabilization Temperature +25 °C)

Parameter	Category	Min	Typ	Max
Output power, mW, SM fiber pigtail, SLD-521	HP	5.0	-	-
Free space output power, mW, in a cone N.A=0.71, SLD-520 *	HP	10.0	-	-
Forward current**, mA	HP	-	350	400
Forward voltage, V	HP	-	-	2.0
Central wavelength, nm	HP	1010	1025	1040
Spectrum width, FWHM, nm	HP	100	-	-
Residual spectral modulation depth, %	HP	-	2.0	5.0
Secondary coherence subpeaks (Reflectivity), dB (10 log)	HP	-	-25	-
Spectral Flatness***, dB	HP	-	-	2
Slow / fast polarization ratio (PM modules), dB****	HP	5.0	-	-
Operation temperature range****, °C	HP	-55	-	+75
Cooler current, A	HP	-	-	1.2
Cooler voltage, V	HP	-	-	3.5

- \* TOW packaged SLDs;
- \*\* Current is specially adjusted to get highest output power with equal intensity of spectral lobes; different for different modules;
- \*\*\* Spectral Flatness parameter describes spectral intensity dropout between spectral lobes;
- \*\*\*\* LYOT depolarized versions are available upon request;
- \*\*\*\*\* Butterfly packaged SLDs

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

SLD-52(a)-(b)-(c)-(d)-(e)  
 Where:  
 a = 0 (free space) or 1 (fiber pigtailed)  
 b = power category HP  
 c = package type  
 d = SM or PM (fiber coupled modules)  
 e = PD (if PD monitor is required)

Example : SLD-521-HP-DIL-SM-PD

**10<sup>-3</sup> maximum feedback is allowed to run HP SLDs safely at full power.**

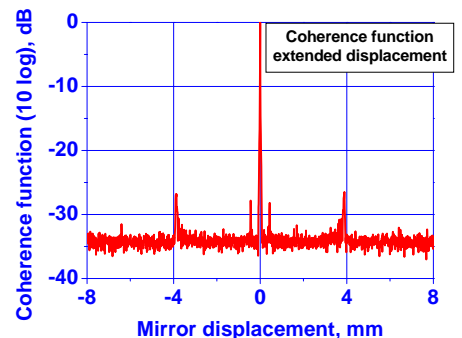
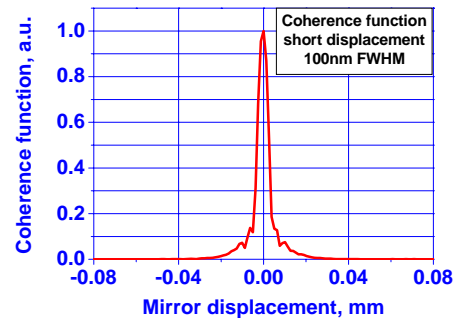
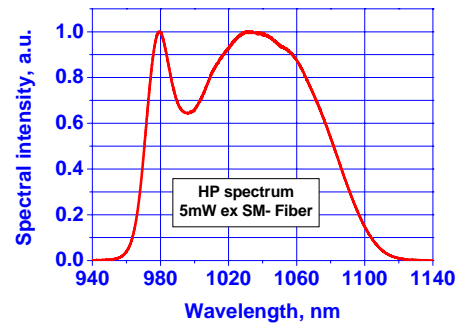
All specifications are subject to change without notice.

**A lot of customized solutions are available – contact us with your detailed requirements!**

**Applications**

- fiberoptic sensors
- Bragg grating sensors
- optical coherence tomography
- optical measurements

**PERFORMANCE EXAMPLES**



Mirror displacement = Optical path difference / 2