

### Features:

- **3 power categories: an output power of up to 25mW ex SM fiber and a spectral width (FWHM) of 50 nm**
- Short coherence length
- Negligible residual Fabry-Perot modulation depth

### Packages:

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

### Additional & customized:

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

### Specifications (Nominal Emitter Stabilization Temperature +25 °C)

Parameter	Category	Min	Typ	Max
Output power, SM fiber pigtail, SLD-331-HP, mW	HP1	5	7.5	-
	HP2	10	15	-
	HP3	20	25	-
Free space output power, in a cone N.A.=0.71*, mW	HP1	10	15	-
	HP2	20	30	-
	HP3	40	50	-
Forward current †, mA	HP1	-	190	230
	HP2	-	260	300
	HP3	-	350	400
Forward voltage, V	All	-	-	2.6
Central wavelength, nm	All	775	785	795
Spectral width (FWHM), nm	All	40	50	-
Residual spectral modulation depth, %	All	-	2.0	5.0
Secondary coherence subpeaks (Reflectivity), dB (10 log)	All	-	-25	-
Spectral flatness ‡, dB	All	-	-	2.0
Slow / fast polarization ratio** (PM-polarized modules), dB	All	-	7.0	-
Operating temperature ††, °C		-55	-	+80
Cooler current, A		-	-	1.2
Cooler voltage, V		-	-	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;

\*\* 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.

Note: SLD spectra for the batches in stock are available upon request.

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

SLD-33(a)-(b)-(c)-(d)-(e),

where: (a) – 0 (free space) or 1 (fiber pigtailed);

(b) – power category HP1, HP2 or HP3; (c) – package type;

(d) – SM or PM (fiber coupled modules); (e) – PD (if PD monitor is required).

Example: SLD-331-HP1-DIL-SM-PD.

**A maximum feedback of  $10^{-3}$  is allowed to run HP SLDs safely at full power.**

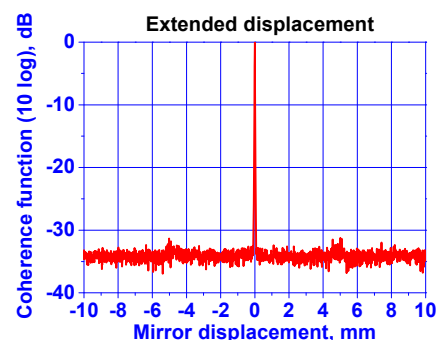
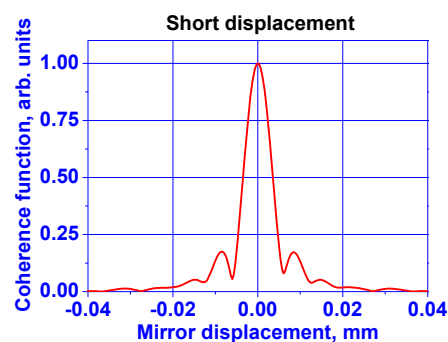
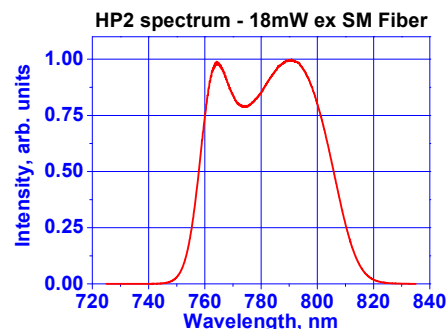
All specifications are subject to change without notice.

**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