

Features:

- High power 670 nm band SM fiber-coupled SLD modules
- Bell-shaped spectrum
- FC/APC terminated fiber pigtails, other connectors upon request

Applications:

- Optical sensors
- Optical coherence tomography
- Optical measurements
- Atomic force microscopy
- Others

Packages:

- **fiber-coupled** –Butterfly; DIL and other packages are available upon request

Specifications (Nominal Emitter Stabilization Temperature +25 °C)

| Parameter | Category | Min | Typ. | Max |
|--|----------|-----|-------|-----|
| Output power, P _{op} , ex SM fiber, mW | HP1 | 4 | – | 5 |
| | HP2 | 8 | – | 10 |
| Forward current at P _{op} , mA | All | – | 150 | 220 |
| Forward voltage at P _{op} , V | All | – | 2.6 | 3.0 |
| Central wavelength* at P _{op} , nm | All | 660 | 670 | 680 |
| Spectrum width at P _{op} , FWHM, nm | All | 6.0 | 7.5 | – |
| Residual spectral modulation depth at P _{op} , % | All | – | 1.0 | 2.0 |
| Secondary coherence subpeaks at P _{op} , dB (10 log) | All | – | < -20 | – |
| Slow /fast polarization ratio (PM modules) at P _{op} , dB | All | 7.5 | 10 | – |
| Operating temperature† at P _{op} , °C | All | -55 | – | +75 |
| Storage temperature at P _{op} , °C | All | -55 | – | +85 |
| PD monitor photocurrent at P _{op} , μA | All | 100 | – | – |
| Cooler current, A | All | – | – | 1.2 |
| Cooler voltage, V | All | – | – | 3.5 |

* A central wavelength of 830 nm is not guaranteed. Contact Superlum representative if you require a tighter tolerance of central wavelength.

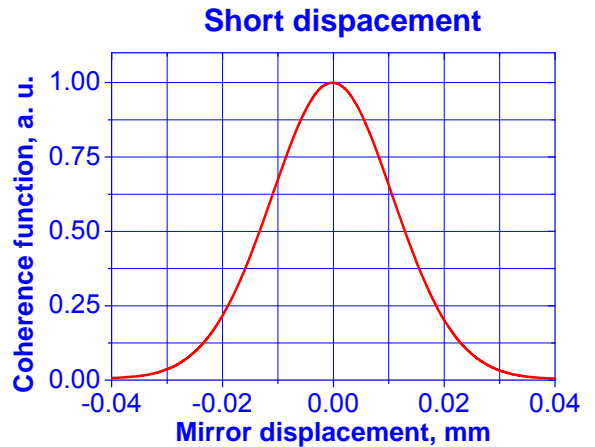
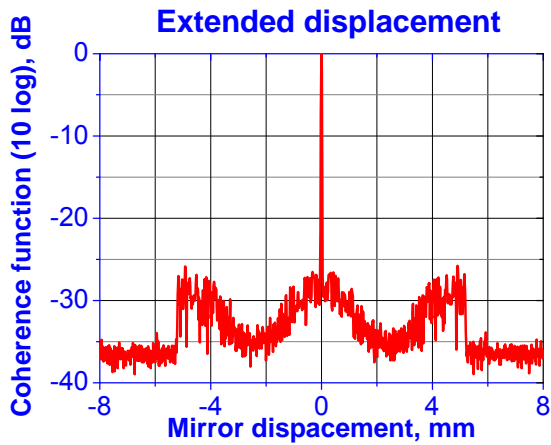
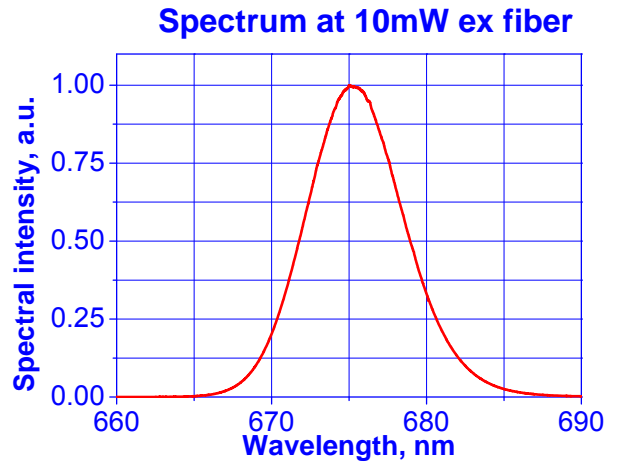
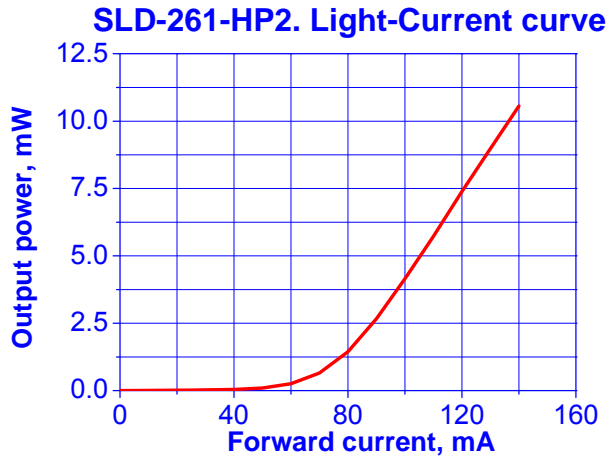
† Butterfly packaged SLDs

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

SLD-261-(a)-(b)-(c)-PD-670-FC/APC,
 where: (a) – power category (HP1 or HP2),
 (b) – package type (DBUT – standard),
 (c) – type of fiber—SM (isotropic) or PM (polarization maintaining),
 PD – monitor photodiode, FC/APC – connector type.

Example: SLD-261-HP2-DBUT-SM-PD-670-FC/APC

TYPICAL PERFORMANCE EXAMPLES



Mirror displacement = Optical path difference / 2

Examples demonstrate typical performance only.
Actual performance may vary from sample to sample and from lot to lot.

All specifications are subject to change without notice.