

Features:

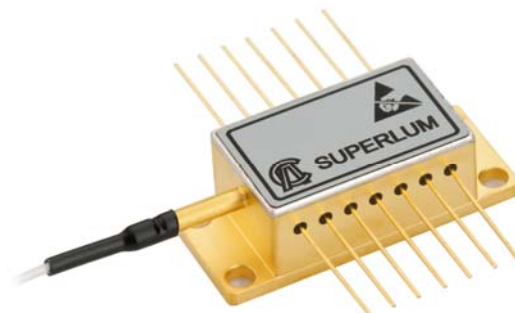
- High power 670 nm band SM fiber-coupled SLD modules
- Bell-shaped spectrum
- FC/APC connectors
-

Applications:

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

Custom:

- DIL and other packages
- **655 nm** center wavelength upon request



Specifications (Nominal Emitter Stabilization Temperature +25 °C)

Parameter		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 current at 20 mW power, µA	All	100	–	–
PD monitor bias voltage, V	All	–	–	5.0
Cooler current, A	All	–	–	1.2
Cooler current, V	All	–	–	3.5
Thermistor BETA, K	All	–	3892	–
Thermistor Resistance at 25 °C, kΩ	All	–	10	–

Attention – typical parameters are not guaranteed. Contact Superlum representative if you require a tighter tolerance of spectral parameters

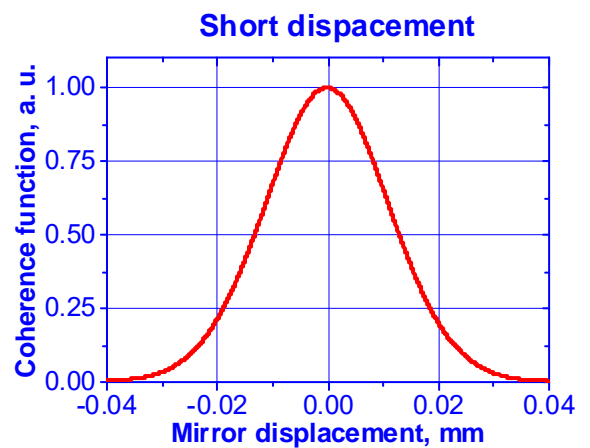
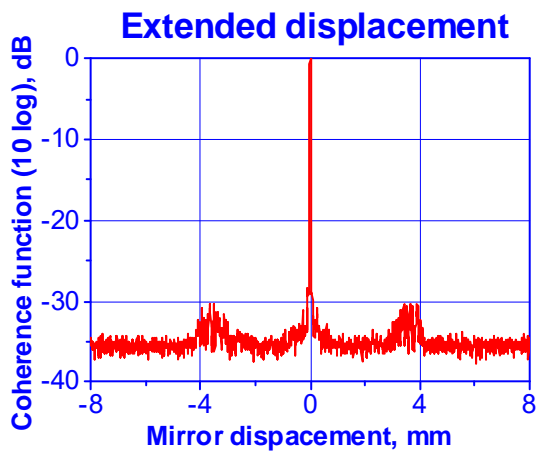
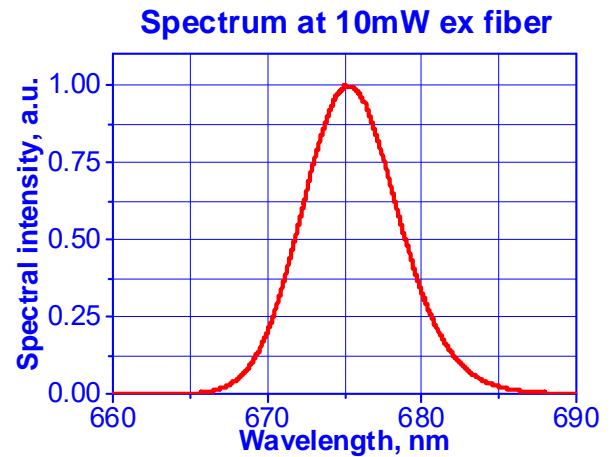
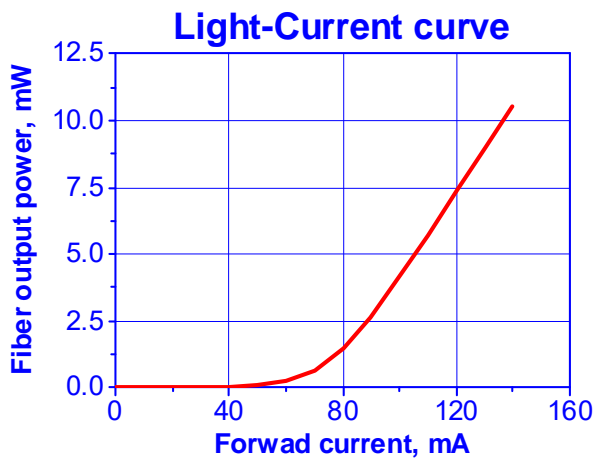
[†] Rated at maximum power, typically decreases linearly with power
Output power must never exceed P_{Max}.

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

SLD-261-(a)-(b)-(c)-PD-670,
 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.