

**Features:**

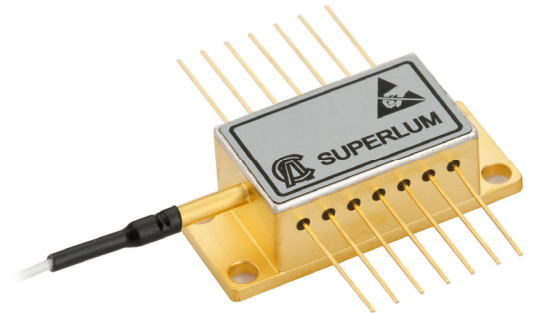
- 20-mW output power
- FC/APC connectors
- 15-nm bell-like optical spectrum
- Very small secondary coherence artifacts

**Applications:**

- Fiber-optic sensors
- OCT, Low coherence interferometry
- Optical measurements
- Others

**Custom:**

- Free space temperature controlled TOW packaged modules
- > 15-nm FWHM spectrum upon request



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

Parameter	Min	Typ.	Max
Output power, P <sub>op</sub> , ex SM fiber, mW	–	–	20
Forward current at P <sub>op</sub> , mA	–	–	280
Forward voltage at P <sub>op</sub> , V	–	–	2.5
Central wavelength at P <sub>op</sub> , nm	775	785	795
Spectrum width at P <sub>op</sub> , FWHM, nm	11	15	–
Residual spectral modulation depth* at P <sub>op</sub> , %	–	2.0	5.0
Secondary coherence subpeaks at P <sub>op</sub> , dB (10 log)	–	-25	-20
Slow / fast polarization ratio (PM modules) at P <sub>op</sub> , dB	7.5	10	–
Operating temperature at P <sub>op</sub> , °C	-55	–	+75
Storage temperature at P <sub>op</sub> , °C	-55	–	+85
PD monitor current at 20 mW power, µA	100	–	–
PD monitor bias voltage, V	–	–	5.0
Cooler current, A	–	–	1.2
Cooler current, V	–	–	3.5
Thermistor BETA, K	–	3892	–
Thermistor Resistance at 25 °C, kΩ	–	10	–

Note: Typical parameters are not guaranteed. Contact a Superlum representative if you require a tighter tolerance on spectral parameters.

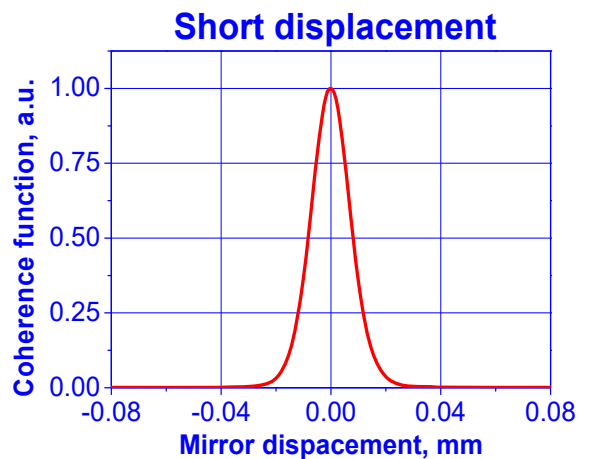
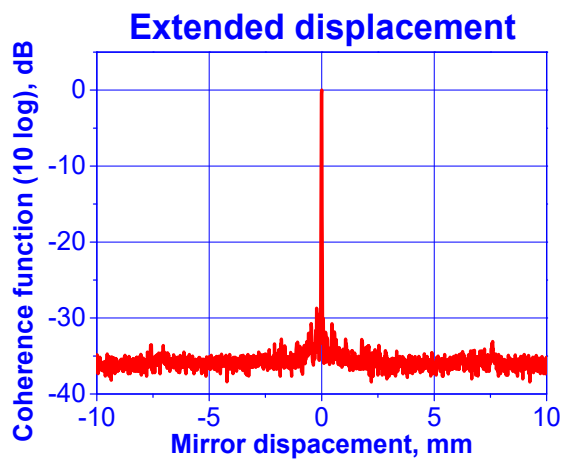
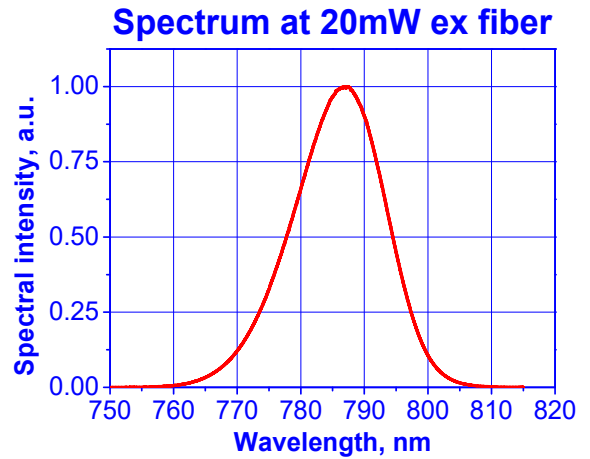
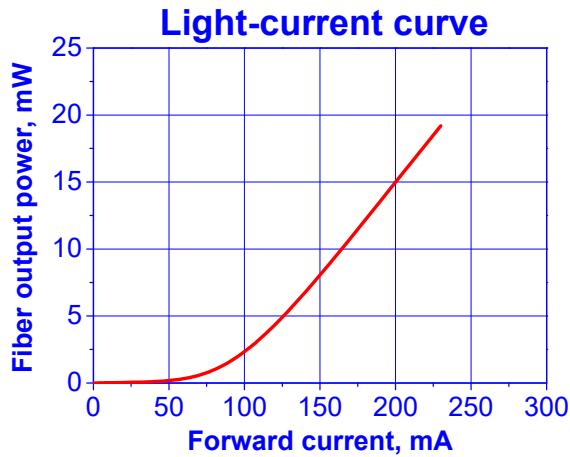
\*Rated at maximum power, typically decreases linearly with power.

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

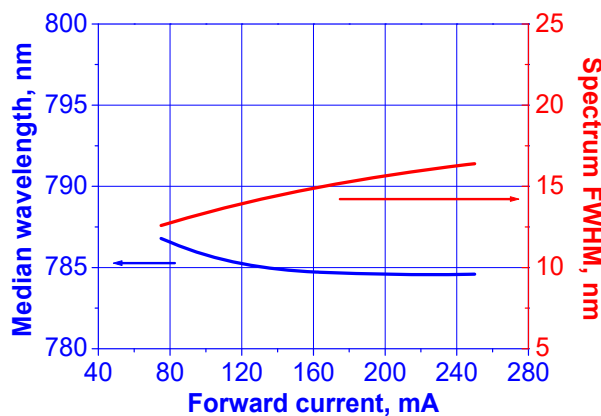
SLD-785G15P20S-DBUT (SM pigtailed modules)

SLD-785G15P20P-DBUT (PM pigtailed modules)

**TYPICAL PERFORMANCE EXAMPLES**



**Spectral characteristics vs forward current**



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.