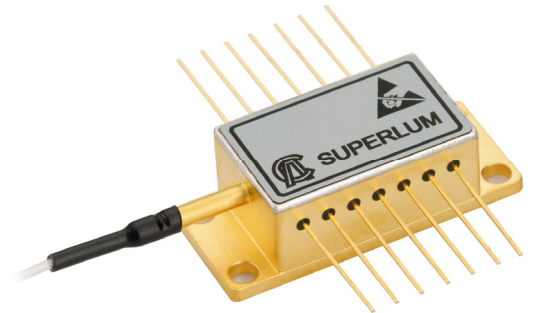


Features:

- SM or PM fiber pigtails
- FC/APC connectors
- 20-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
- > 20-nm FWHM spectrum upon request

Specifications (Nominal Emitter Stabilization Temperature +25 °C)

Parameter	Min	Typ.	Max
Output power, P _{op} , ex SM fiber, mW	–	–	5
Forward current at P _{op} , mA	–	–	180
Forward voltage at P _{op} , V	–	–	2.5
Central wavelength at P _{op} , nm	775	785	795
Spectrum width at P _{op} , FWHM, nm	15	20	–
Residual spectral modulation depth* at P _{op} , %	–	2.0	5.0
Secondary coherence subpeaks at P _{op} , dB (10 log)	–	–	-20
Slow / fast polarization ratio (PM modules) at P _{op} , dB	5	7.5	–
Operating temperature at P _{op} , °C	-55	–	+75
Storage temperature at P _{op} , °C	-55	–	+85
PD monitor current at 5 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. Higher output power may be available upon request. Contact Superlum for more details. Wider spectrum may be available upon request. Contact Superlum for more details.

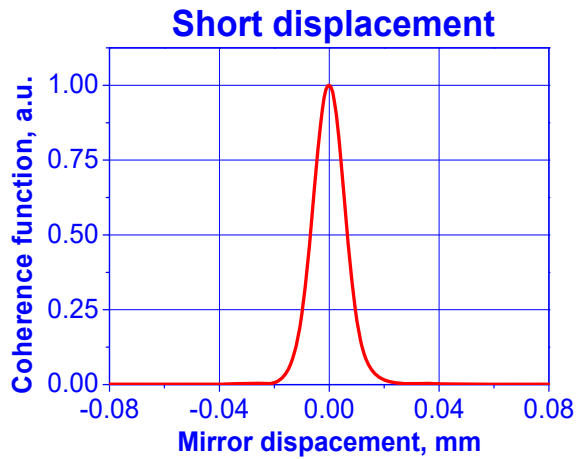
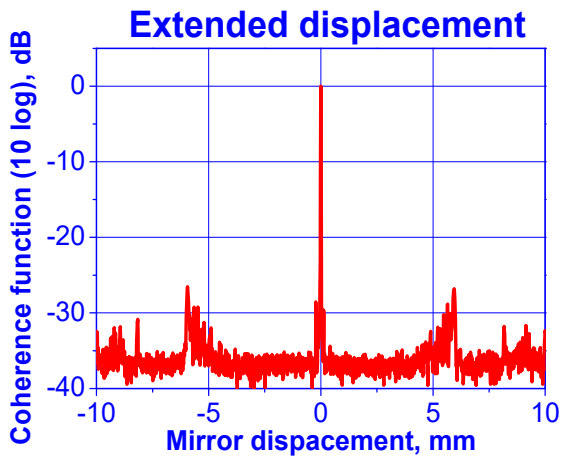
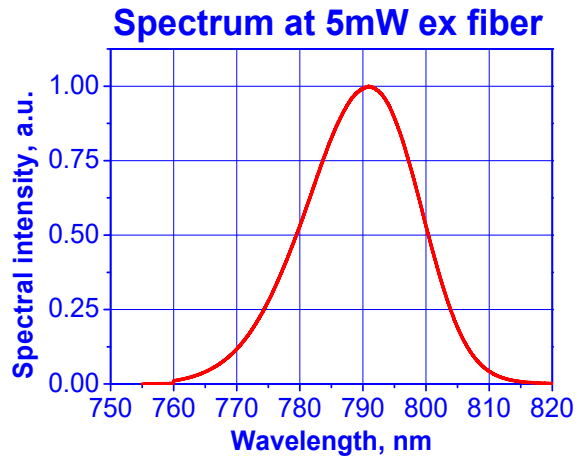
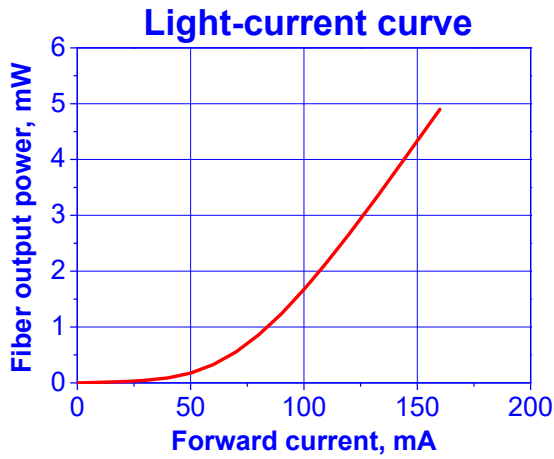
*Rated at maximum power, typically decreases linearly with power.

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

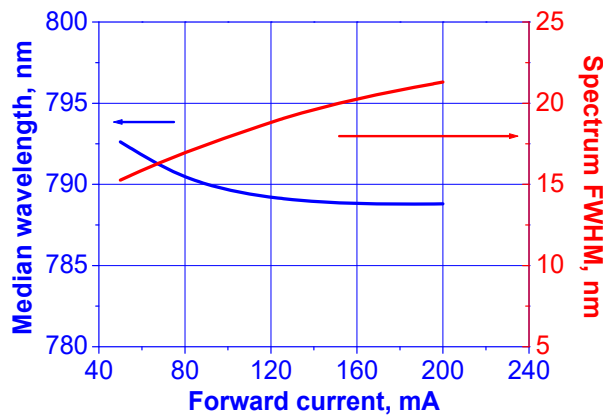
SLD-785G20P5S-DBUT (SM pigtailed modules)

SLD-785G20P5P-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.