SUPERLUM

Preliminary! SLD-260-UHP-TOW-PD-670: Ultra High Power TOW-packaged Free-Space SLDs at 670 nm

Features:

- CW output power of up to 25 mW
- LD-like spatial brightness, single transverse mode output
- Bell-shaped LED-like spectrum with very small ripples

Applications:

- Optical sensors
- Optical coherence tomography
- Optical measurements
- Atomic force microscopy
- Low speckle illumination
- Others

Specifications (Nominal Emitter Stabilization Temperature +25 °C)

Parameter	Min	Typ.	Max
Output power, P, mW	–	–	25
Forward current P, mA	–	150	–
Forward voltage, V	–	2.6	3.0
Central wavelength* , nm	660	670	680
Spectrum width at, FWHM, nm	6.0	7.5	–
Residual spectral modulation depth , %	–	<1.0	2.0
Secondary coherence subpeaks, dB (10 log)	–	<−20	–
Polarization ratio (PM modules), dB	–	>20	–
Operating temperature, °C	−55	–	+55
Storage temperature, °C	−55	–	+85
PD monitor photocurrent at P, μA	100	–	–
Cooler current, A	–	–	1.2
Cooler voltage, V	–	–	3.5

* A central wavelength of 670 nm is not guaranteed. Contact Superlum representative if you require a tighter tolerance of central wavelength.

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

Example: SLD-260-UHP-TOW(1 or 2)-PD-670.

Packages available are TOW1 and TOW2.

See the next page for performance examples ➔

Rev.01.ST260TOWUHP670.300817

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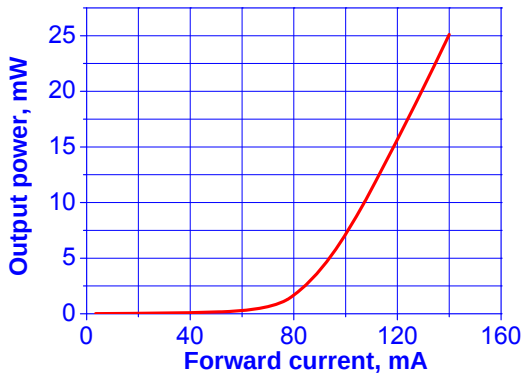
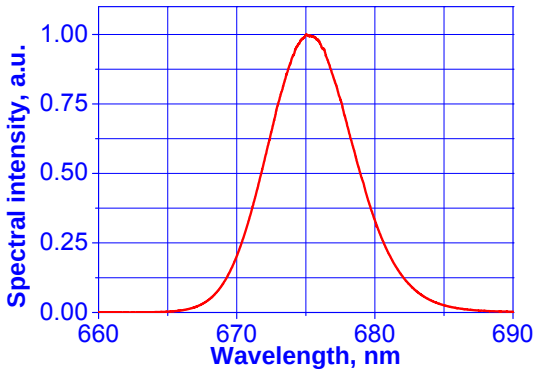
TYPICAL PERFORMANCE EXAMPLES

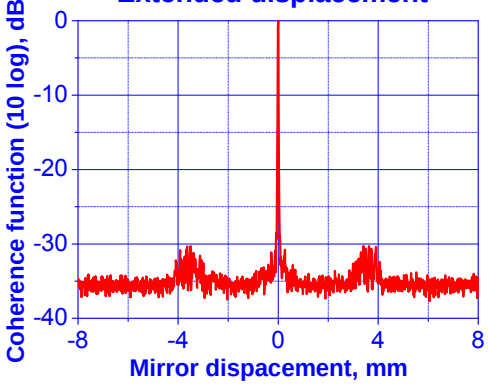
SLD-260-UHP. Light-Current curve



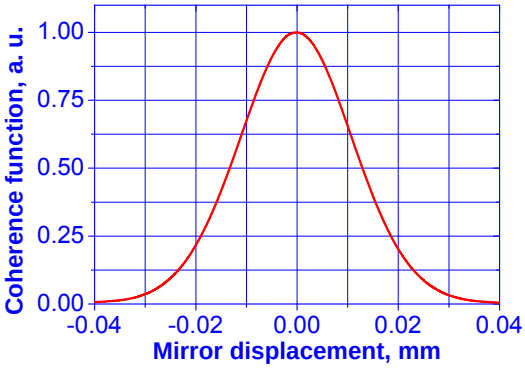
Spectrum at 25mW



Extended displacement

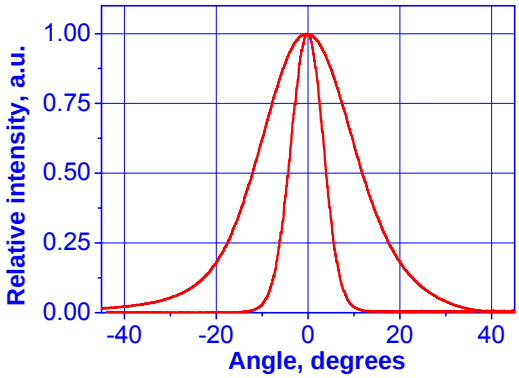


Short dispacement



Mirror displacement = Optical path difference / 2

Typical far field



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.

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