SUPERLUM — SLD-55-MP: medium power SLD modules at 1180 nm

Applications:

- optical sensing
- optical coherence tomography
- optical measurements

Features:

- flat spectrum with very small Fabry-Perot modulation depth
- maximum parasitic secondary coherence subpeaks intensity below -20 dB (10 log)

Packages: Butterfly

Additional & customized:

- PD monitors
- PM fiber pigtails, polarized or pseudo-depolarized* output
- FC/APC terminated pigtails

* Light is launched into the fiber with its polarization oriented at 45° to the birefringent axes

Specifications (Nominal Emitter Stabilization Temperature +20 °C)

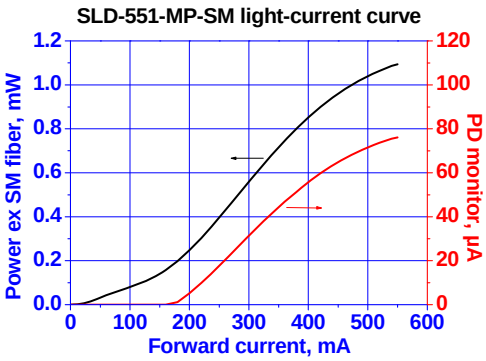
Parameter	Min	Typ.	Max
Output power ex SM fiber, mW	0.75	1.0	–
Forward current, mA	–	550	650
Forward voltage, V	–	1.8	2.2
Peak wavelength, nm	–	1180	–
Spectrum width, nm	25	30	–
Residual spectral modulation depth, %	–	2.0	5.0
Secondary coherence subpeaks, dB (10 log)	–	-25	-20
Polarization ratio	–	3.0	–
Operating temperature (case), °C	-55	–	+60
Cooler current, A	–	–	2.5
Cooler voltage, V	–	–	3.8

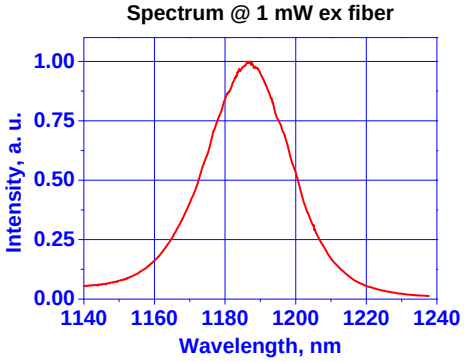
The following part numbers should be used when **ordering**:

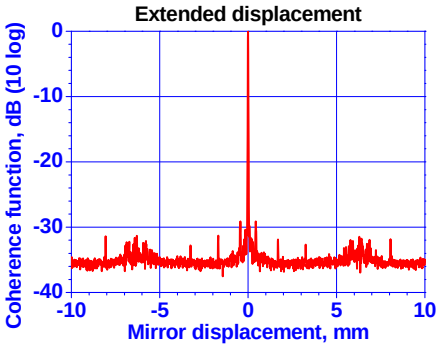
SLD-551-MP-(c)-(d)-(e),
where:
(c) – package type,
(d) – SM (isotropic) or PM (polarization maintain),
(e) – PD (monitoring photodiode).

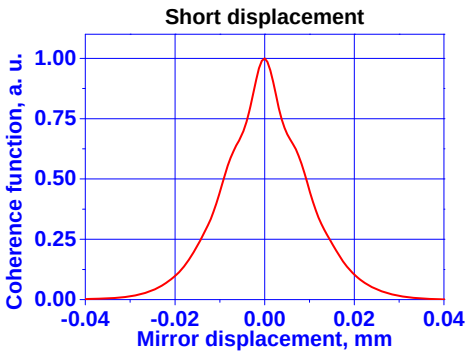
Example: SLD-551-MP-DBUT-SM-PD.

PERFORMANCE EXAMPLES









Mirror displacement = Optical path difference / 2

All specifications are subject to change without notice.

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