Superlum Diodes, Ltd.

Prototype. Broadlighter Q940: 4 mW, 300 nm FWHM Benchtop Lightsource at 940 nm

Applications:

- optical coherence tomography
- optical metrology
- optical measurements

Features:

- extremely wide optical spectrum covering NIR range 780 – 1080 nm
- coherence length below 3.0 microns
- high output power
- low noise

Specifications:

Parameter	Min	Typ	Max
SM fiber output power, mW	3.0	4.0	-
Mean wavelength, nm	-	940	-
3 dB (FWHM) spectrum width, nm	275	300	-
Residual spectral modulation depth (0.05 nm resolution), %	-	2	5
Spectral flatness, %	-	-	50
Long-term stability,%*	±0.5		
Short-term stability, %**	±0.1		

*8 hours, measurements taken every minute, 100 ms integration.
**15 minutes, measurements taken every second, 100 ms integration.
All measurements were taken after a one-hour warm-up period at ambient temperature (22±0.5) °C

Power requirements: 110 V AC or 220 V AC, 50/60 Hz

Operating temperature range: 0 °C to +40 °C

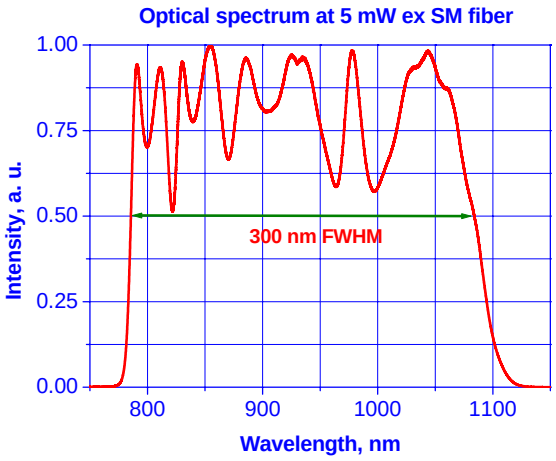
Output: FC/APC

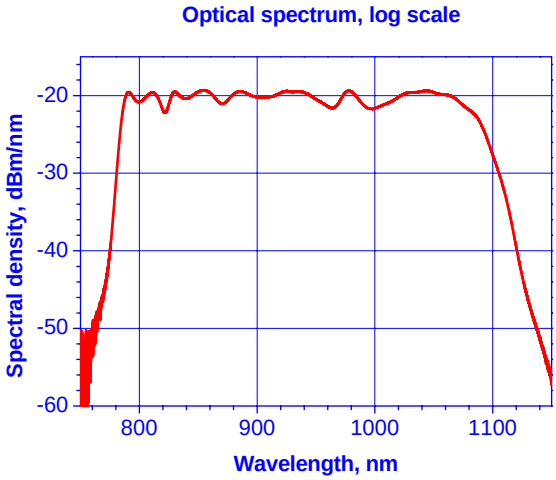
Fiber: Corning Puremode HI 780

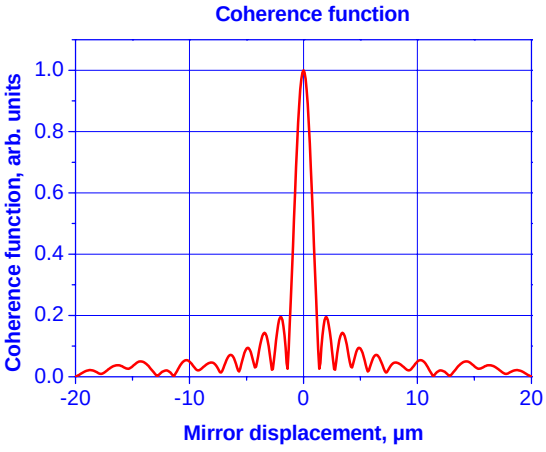
10^{-3} maximum feedback is allowed to run Broadlighter Q940 safely.

All specifications are subject to change without notice.

PERFORMANCE EXAMPLES







Mirror displacement = Optical path difference / 2.
Spatial resolution of measurements is 0.5 micron.

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