FLS-2300B

R&D AND MANUFACTURING

- Industry-leading spectral density stability
- Covers the C+L band
- High output power (≥14 dBm)
- High flatness (3.5 dB over 1530-1600 nm)

EXFO
EXPERTISE REACHING OUT

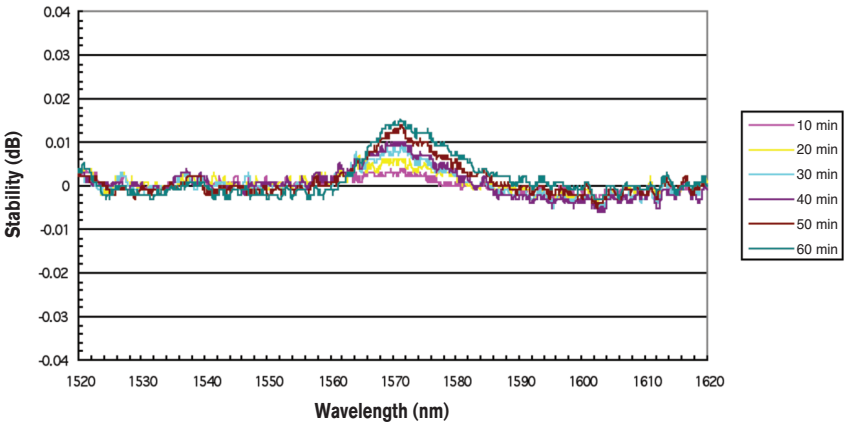
Remarkably Stable Broadband Source

With its remarkable spectral density stability, the cost-effective FLS-2300B from EXFO is an excellent source for fast and reliable characterization of high-loss DWDM passive components such as thin film filters, arrayed waveguides and fiber Bragg gratings. With the FLS-2300B there is no need to perform a reference at every measurement, which saves you time on the production floor.

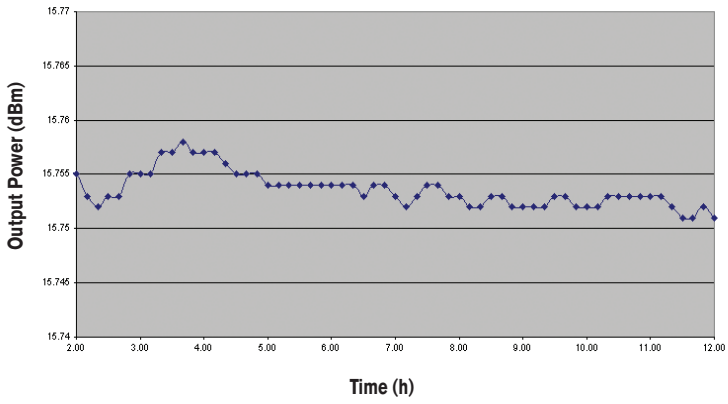
Key Applications

- Spectral measurements of C+L -band DWDM passive components
- Noise simulation in DWDM systems
- Raman Amplifier gain and gain flatness
- Fiber link characterization
- High sensitivity PMD measurements
- Monitor fiber Bragg gratings under stress

Spectral Density Stability over One Hour after 90-minute Warmup



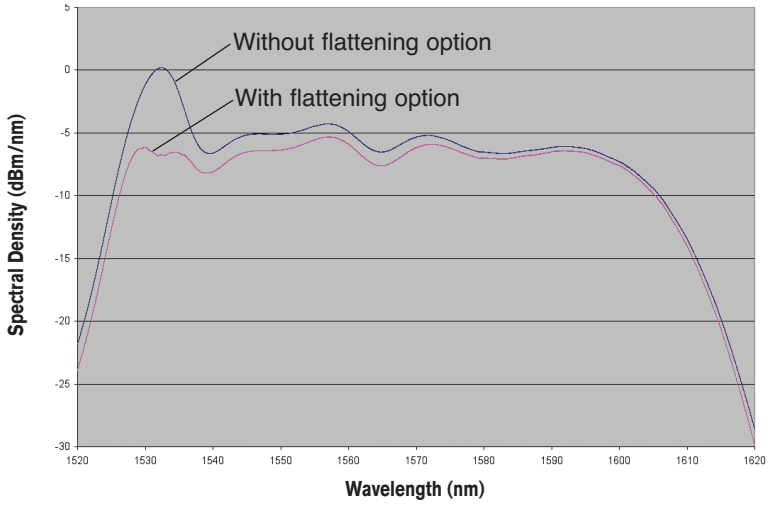
FLS-2300B Output Power Stability



Wide Wavelength Range and High (Power) Spectral Density

When compared to LED, super-LED or other ASE sources available on the market, the FLS-2300B has the highest power density. The result–a higher dynamic range when measuring a passive device with an optical spectrum analyzer. Make use of the wide wavelength range from 1530 nm to 1600 nm with the high spectral density of –8 dBm/nm.

High Spectral Density Across the Full Wavelength Range

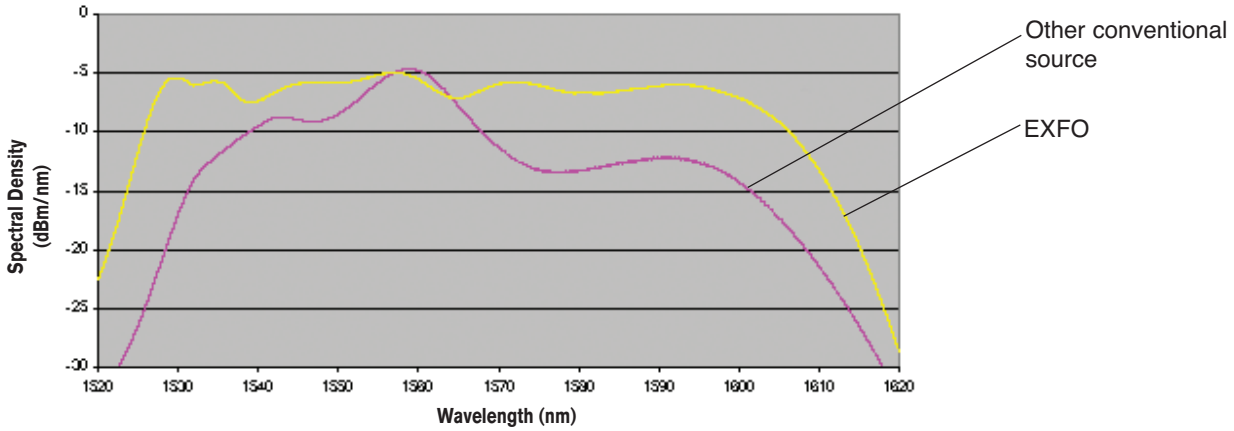


High Output Power and Excellent Flatness

The FLS-2300B ASE Broadband Source is a high-power, unpolarized fiber-optic source that is ideal for component testing, PMD measurements, communication link characterization and fiber sensing.

By optically pumping an erbium-doped fiber, the C+L -band source emits a flattened amplified spontaneous emission (ASE) spectrum over the entire wavelength range. Its unpolarized output makes it ideal for stable and average loss measurements.

Source Spectrum Comparaison between an EXFO ASE and a Conventional source



SPECIFICATIONS [a]

		Without gain-flattening option	With gain-flattening option
Spectral density (dBm/nm)		≥ –8 from 1530 nm to 1600 nm ≥ –14 from 1525 nm to 1610 nm ≥ –25 from 1520 nm to 1615 nm	≥ –10 from 1530 nm to 1600 nm ≥ –15 from 1525 nm to 1610 nm ≥ –26 from 1520 nm to 1615 nm
Total output power (dBm)		≥ 14	≥ 12
Spectral density stability [c] (dB/nm)	15 min	± 0.03 (1520 nm to 1560 nm)	± 0.03 (1520 nm to 1560 nm)
Total power stability [b] (dB)	1 hour	± 0.01 (Δ = 0.02)	± 0.01 (Δ = 0.02)
Spectral flatness (dB)		Δ ≤ 3.5 typical (1537 nm to 1600 nm)	Δ ≤ 3.5 (1530 nm to 1600 nm)
DOP		< 2 % typical (1530 nm to 1600 nm) over 0.15 nm band	

GENERAL SPECIFICATIONS

Output connector	FC/APC	
Dimensions (H x W x D)	117 mm x 222 mm x 333 mm	(4 5/8 in x 8 3/4 in x 13 1/8 in)
Weight	3.2 kg	(7 lb)
Operating temperature	10 °C to 40 °C	(50 °F to 104 °F)
Storage temperature	–40 °C to 70 °C	(–40 °F to 158 °F)
Output fiber	SMF-28	

NOTES

a. At 23 °C ± 0.5 °C (73 °F ± 0.9 °F), after a two-hour warmup.

b. The total power stability is expressed as ± half the difference between the maximum and minimum values measured during the period.

c. Typical.

SAFETY

21 CFR 1040.10	CLASS 3B LASER PRODUCT
IEC 60825-1: Ed.1.1 1998	CLASS 3A LASER PRODUCT

STANDARD ACCESSORIES

Instruction manual, hybrid test jumper, test report, Certificate of Compliance

ORDERING INFORMATION

FLS-2300B-X-58

Model

FLS-2300B-0 = C+L -band ASE broadband source 1527-1610 nm, 9/125 µm without flattening option

FLS-2300B-1 = C+L -band ASE broadband source 1527-1610 nm, 9/125 µm with flattening option

Connector

58 = FC/APC

Hybrid test jumpers available upon request.

TJ-B58-58 = FC/APC to FC/APC
TJ-B58-88 = FC/APC to SC/APC
TJ-B58-89 = FC/APC to FC/UPC
TJ-B58-90 = FC/APC to ST/UPC
TJ-B58-91 = FC/APC to SC/UPC
TJ-B58-96 = FC/APC to E2000/APC

Example: FLS-2300B-0-58

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