

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)

Remarkably Stable Broadband Source

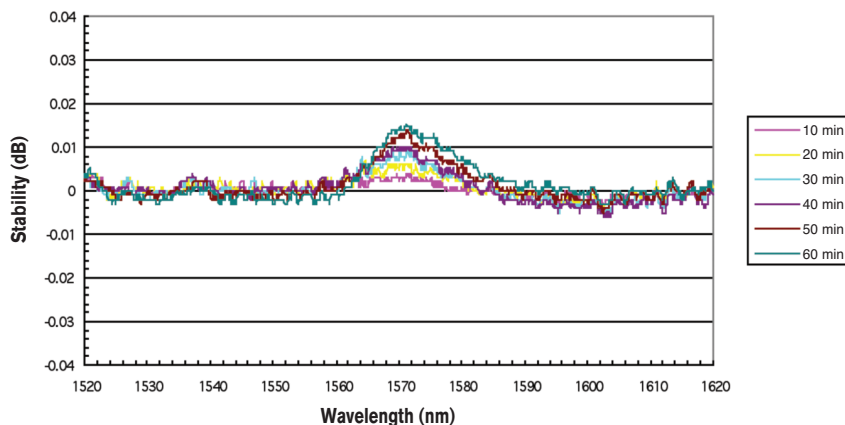
With its remarkable spectral density stability, the cost-effective FLS-2300B from EXFO is an excellent source for fast and reliable characterization of high-loss DWDM passive components such as thin film filters, arrayed waveguides and fiber Bragg gratings. With the FLS-2300B there is no need to perform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

Key Applications

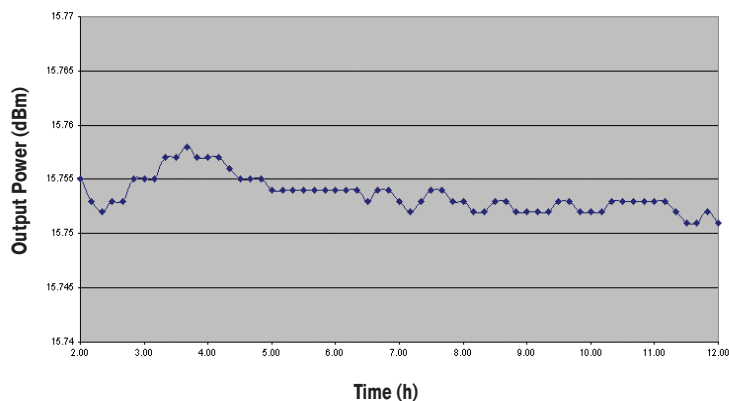
- Spectral measurements of C+L -band DWDM passive components
- Noise simulation in DWDM systems
- Raman Amplifier gain and gain flatness
- Fiber link characterization
- High sensitivity PMD measurements
- Monitor fiber Bragg gratings under stress



Spectral Density Stability over One Hour after 90-minute Warmup



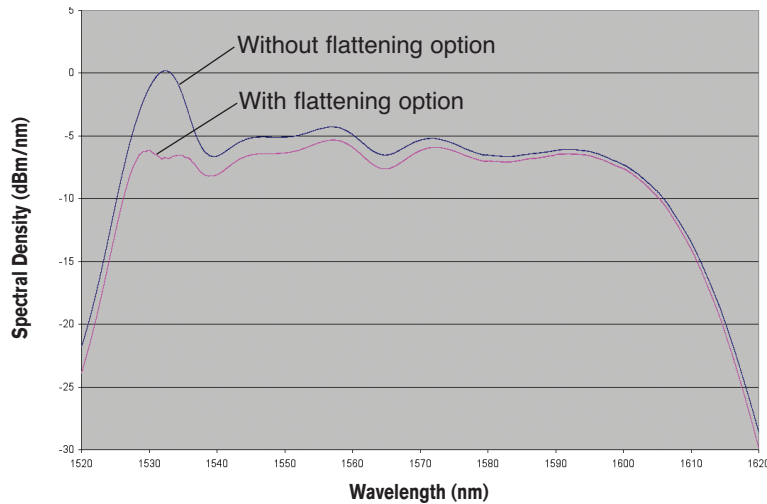
FLS-2300B Output Power Stability



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

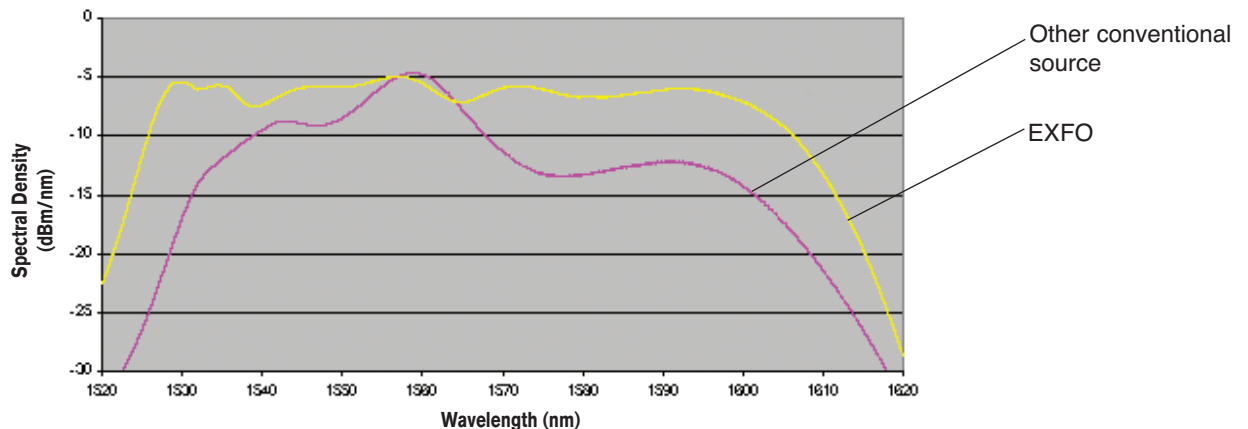


High Output Power and Excellent Flatness

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 Comparison 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

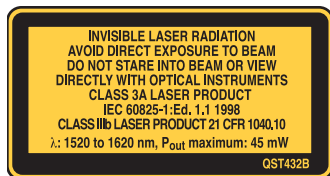
- At 23 °C ± 0.5 °C (73 °F ± 0.9 °F), after a two-hour warmup.
- The total power stability is expressed as ± half the difference between the maximum and minimum values measured during the period.
- Typical.

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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EXFO is certified ISO 9001 and attests to the quality of these products. This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. EXFO has made every effort to ensure that the information contained in this specification sheet is accurate. However, we accept no responsibility for any errors or omissions, and we reserve the right to modify design, characteristics and products at any time without obligation. Units of measurement in this document conform to SI standards and practices. In addition, all of EXFO's manufactured products are compliant with the European Union's WEEE directive. For more information, please visit www.EXFO.com/recycle. Contact EXFO for prices and availability or to obtain the phone number of your local EXFO distributor.

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In case of discrepancy, the Web version takes precedence over any printed literature.