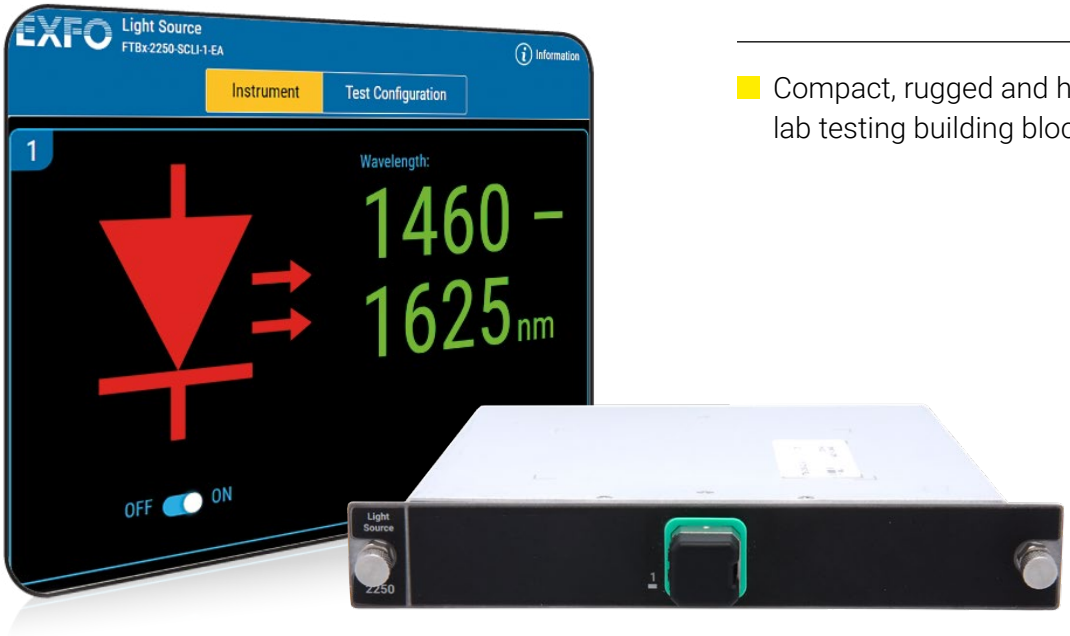
SPEC SHEET

FTBx-2250

BROADBAND SOURCE



- Compact, rugged and highly reliable—an essential lab testing building block.

KEY FEATURES

- Superluminescent diode (SLED) CWDM range (1460 to 1625 nm)
- Fixed output power
- Optimized for power stability
- High spectral density

RELATED PRODUCTS

Optical switch
FTBx-9150

Power meter
FTBx-1750

Variable attenuator
FTBx-3500

Platform
LTB-8

BROAD SPECTRAL RANGE, IMPRESSIVE POWER

The high-power, SLED-based FTBx-2250 broadband source family covers the bands needed for telecommunications applications. The highly stable FTBx-2250 is ideal for broadband applications, coarse wavelength-division multiplexing (CWDM) network testing, and passive optical networks (PON) component manufacturing and testing, as well as fiber-optic sensing and spectroscopy. FTBx-2250 module must be inserted inside an LTB-8 platform to operate.

Single output source

For CWDM testing, the SCLi option, covering the S, C and L bands, enables accurate characterization of fiber links and their passive components, with a very cost-effective test setup. Presence of an optical isolator makes the output of the SCLi source highly stable.

Designed for component testing

EXFO's FTBx-2250 offers enough power along the spectrum to measure high-level insertion loss. By combining the FTBx-2250 with an optical spectrum analyzer (OSA), you can efficiently qualify your components during development or perform pass/fail testing during production.

High spectral-density stability

High spectral density stability is essential to ensure that the test setup produces accurate measurements, time and again. The more stable the spectrum, the less often a reference trace has to be acquired. This translates into better productivity.

After a reference trace is acquired with the OSA, it can be subtracted to all subsequent traces. With no device under test (DUT) in the system, the resulting traces, centered around the averaged value, present the typical spectral fluctuations of the source.

SPECIFICATIONS

SLED SOURCE SPECIFICATIONS [a]		
		FTBx-2250-SCLI-1
Mean wavelength (nm)		1550 ± 25
Output power (dBm)		≥ 3
Peak spectral density (dBm/nm) [b]		–23
Minimum spectral density (dBm/nm) [b]		–27
Total power stability (dB) [c]	15 min 8 hours	±0.017 ±0.02
Spectral density stability (dB) [c, d]	15 min 8 hours	±0.035 (typical) ±0.046 (typical)
Ripple (dB) [d]		0.35
Fiber type (µm)		9/125

GENERAL SPECIFICATIONS		
Size (H x W x D)		25 mm x 159 mm x 175 mm (1 in x 6 1/4 in x 6 7/8 in)
Weight		0.35 kg (0.77 lb)
Temperature	Operating Storage	0 °C to 40 °C (32 °F to 104 °F) –40 °C to 70 °C (–40 °F to 158 °F)
Relative humidity		0 % to 80 % non-condensing
LTB-8 operation		Windows 10
Instrument drivers		IVI Drivers, LabVIEW™ drivers and SCPI commands
Remote control (automation)		With LTB-8: GPIB (IEEE-488.1, IEEE-488.2), Ethernet and RS-232

LASER SAFETY

a. Specifications are valid at 23 °C ± 1 °C, at maximum power after warmup time, with isolator, for return loss of ≥ 30 dB, with power cord plugged in.

b. Between 1460 nm and 1625 nm.

c. Stability is expressed as ± half the difference between the maximum and minimum values measured in the period.

d. Measured in a 0.1 nm resolution bandwidth. Between 1490 nm and 1590 nm.

ORDERING INFORMATION

FTBx-2250-XX-XX

Model
SCLI-1 = Single output SLED,
1460 nm to 1625 nm SLED

Other wavelengths and configurations may be available upon request. Please call factory.

Connector
EI-EUI-28 = UPC/DIN 47256
EI-EUI-89 = UPC/FC narrow key
EI-EUI-90 = UPC/ST (EI only)
EI-EUI-91 = UPC/SC
EI-EUI-95 = UPC/E-2000
EI-EUI-98 = UPC/LC
EA-EUI-28 = APC/DIN 47256
EA-EUI-89 = APC/FC narrow key
EA-EUI-91 = APC/SC
EA-EUI-95 = APC/E-2000
EA-EUI-98 = APC/LC

Example: FTBx-2250-SCLI-1-EA-EUI-89

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