FTBx-2150

OPTICAL LIGHT SOURCE



Exceptional selection of single- or multi-wavelength, multimode light-emitting diodes (LEDs) and singlemode distributed feedback (DFB) lasers, perfect for IL and ORL testing, as well as FTTx component verification.

KEY FEATURES

Single-, dual- or multi-wavelength LEDs or IL/ORL optimized DFB lasers

Individual output port for DFB lasers

Combines two sources on a single output for LED

Continuous-wave or modulated output power

Variable output power over a 5 dB range for singlemode fiber

RELATED PRODUCTS







Optical switch FTBx-9150



Variable attenuator FTBx-3500



HIGH-PERFORMANCE OPTICAL LIGHT SOURCES

Advanced testing environments require a high-performance, stable light source to guarantee accurate and reliable test results. Designed for optimal stability, the modular FTBx-2150 offers this and more. Steady drive circuitry maximizes optical output power and maintains excellent stability, while precision optical components ensure low-loss, narrow-beam, truly efficient output coupling.

The FTBx-2150 Optical Light Source features variable output power over range of 5 dB for singlemode to simulate power losses with precision.

APPLICATIONS

> Insertion loss measurements

- > Return loss measurements
- > Spectral attenuation measurements in fibers
- > FTTx component characterization
- > Splicing test stations
- > Stability measurements
- > Polarization-dependent loss measurements

ENCIRCLED FLUX COMPLIANCE

Using the FTBx-2150-0012C-1 (50 µm output) with EXFO's 50 µm output mode conditioner will guarantee Encircled-Flux compliance as per IEC-61280-4-1 Ed.2.

Compatible part numbers: FTBx-2150-0012C-1-EI-EUI-89 with MC-FC-50-N FTBx-2150-0012C-1-EI-EUI-91 with MC-SC-50-N FTBx-2150-0012C-1-EI-EUI-91 with MC-SC-LC-50-N FTBx-2150-0012C-1-EI-EUI-89 with MC-FC-62-N FTBx-2150-0012C-1-EI-EUI-91 with MC-SC-62-N FTBx-2150-0012C-1-EI-EUI-91 with MC-SC-LC-62-N

ORL MEASUREMENTS

Since the FTBx-2150 singlemode light sources have been designed using DFB lasers which have narrow spectral width, ORL optimized modulation needs to be used when performing ORL measurements.



SPECIFICATIONS

TECHNICAL SPECIFICATIONS ^{a, b}			
IL/ORL Optimized DFBs			
Model	0023B-2		
Wavelength (nm)	1310 ± 10 1550 ± 10		
Spectral width (nm)	<1		
Output power (dBm)	≥0		
Stability (dB) °			
15 minutes	±0.1		
Attenuation range (dB)	5		
Modulation	None, 270 Hz, 330 Hz, 1 kHz, 2 kHz, ORL optimized		
LED Light Sources			
Model	0012C-1		
Wavelength (nm)	850 ± 30 1300 -20/+50		
Spectral width (nm) 850 nm 1300 nm	30 to 60 100 to 140		
Output power (dBm)	≥-26.0		
Stability (dB) ° 15 minutes	±0.1		
Modulation	None, 270 Hz, 330 Hz, 1 kHz, 2 kHz		
Launching conditions (typical)	Controlled condition at the output connector		

GENERAL SPECIFICATIONS

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Size (H x W x D)	25 mm X 159 mm X 185 mm (1 in X 6 ¹ /4 in X 6 ⁷ /8 in)	
Temperature operating storage	5 °C to 35 °C (41 °F to 95 °F) −30 °C to 70 °C (−22 °F to 158 °F)	Class 1 Laser Product and Class 1 LED Product
Relative humidity	0% to 80% non-condensing	

Notes

a. Specifications are valid at 23 °C \pm 1 °C % = at maximum power after warm-up time.

b. Typical value.

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



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.

SAFETY

Class 1 Laser Product and Class 1 LED Product

STANDARD ACCESSORIES

User guide and Certificate of Compliance.

ACCESSORIES Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 50/125 µm MC-FC-50-N FC connector at both ends of mode conditioner Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 50/125 µm MC-FC-50-N-CERT FC connector at both ends of mode conditioner Certificate of conformance, attached to ModCon Serial Number Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 50/125 µm MC-FC-50-N-TEST FC connector at both ends of mode conditioner Certificate of conformance and test report, attached to ModCon Serial Number Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 50/125 µm MC-SC-50-N SC connector at both ends of mode conditioner Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 50/125 µm MC-SC-50-N-CERT SC connector at both ends of mode conditioner Certificate of conformance, attached to ModCon Serial Number Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 50/125 µm MC-SC-50-N-TEST SC connector at both ends of mode conditioner Certificate of conformance and test report, attached to ModCon Serial Number Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 50/125 µm MC-SC-LC-50-N SC connector at input of mode conditioner & LC connector at output of mode conditioner Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 50/125 µm MC-SC-IC-50-N-CERT SC connector at input of mode conditioner & LC connector at output of mode conditioner Certificate of conformance, attached to ModCon Serial Number Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 50/125 µm SC connector at input of mode conditioner & LC connector at output of mode conditioner Certificate of conformance and test report, attached to ModCon Serial Number MC-SC-LC-50-N-TEST Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 62.5/125 µm MC-FC-62-N FC connector at both ends of mode conditioner Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 62.5/125 µm MC-FC-62-N-CERT FC connector at both ends of mode conditioner Certificate of conformance, attached to ModCon Serial Number Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 62.5/125 µm MC-FC-62-N-TEST FC connector at both ends of mode conditioner Certificate of conformance and test report, attached to ModCon Serial Number Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 62.5/125 µm MC-SC-62-N SC connector at both ends of mode conditioner Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 62.5/125 µm MC-SC-62-N-CERT SC connector at both ends of mode conditioner Certificate of conformance, attached to ModCon Serial Number Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 62.5/125 µm MC-SC-62-N-TEST SC connector at both ends of mode conditioner Certificate of conformance and test report, attached to ModCon Serial Number Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 62.5/125 µm MC-SC-IC-62-N SC connector at input of mode conditioner & LC connector at output of mode conditioner Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 62.5/125 µm MC-SC-LC-62-N-CERT SC connector at input of mode conditioner & LC connector at output of mode conditioner Certificate of conformance, attached to ModCon Serial Number Condition output of FTBx/FTB-2150-0012C-1 to be EF compliant with fiber diameter of 62.5/125 µm MC-SC-LC-62-N-TEST SC connector at input of mode conditioner & LC connector at output of mode conditioner Certificate of conformance and test report, attached to ModCon Serial Number





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