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Data Sheet
August 14, 2026

ILX LIGHTWAVE

ILX Lightwave FOS-79800B: Source Modules

ILX Lightwave Optical Light Sources. Wavelength: specific optical output across the C and L bands., Wavelength: ** Module-dependent, Accuracy: ** ±0.1 dB high-resolution control.

MODEL ILX Lightwave FOS-79800B	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU FOS-79800B	LISTING https://aumictechlabs.com/products/fos-79800b-2/

NIST-traceable cal · SAM registered · 30-day returns · NAICS 423690 · 811210 · 541380

This unit

The ILX Lightwave FOS-79800B is a precision DFB laser source module for fiber optic testing and WDM system characterization. It operates as a plug-in component within the FOM-7900B Fiber Optic System Mainframe, delivering stable, wavelength-specific optical output across the C and L bands. The module supports independent control via front-panel menu or remote command through RS-232 and GPIB (IEEE-488.2) interfaces, enabling multi-wavelength measurement campaigns and component validation in production and laboratory environments. Technical Specifications Emitter Type: DFB laser diode Wavelength: Module-dependent; ITU grid points available (examples: 1530.3 nm, 1537.4 nm; extended range 1475–1625 nm for FOS-79800F variants) Output Power: 10.0 dBm typical (FOS-79800B/315B); minimum 10 dBm (FOS-79800D/315X1); minimum 13 dBm (FOS-79800D/315X2); 9–20 mW calibrated (FOS-79800E) Short-Term Power Stability: ±0.005 dB (rms) at constant ambient within ±0.1°C Long-Term Power Stability: ±0.003 dB over 15 minutes at constant ambient within ±1°C Wavelength Stability: ±3 pm / 90 days post-calibration (FOS-79800 series); ±0.003 nm (FOS-79800E); ±25 pm / 90 days or ±50

pm / one year (FOS-79800F) Linewidth: 30 MHz nominal; tunable to 1 GHz via coherence control for SBS suppression Attenuation Accuracy: ±0.1 dB high-resolution control Key Features Processor-controlled modulation at 100% depth, 50% duty cycle Synchronous modulation capability spanning 1–500 kHz across all active modules Mainframe trigger support for synchronized multi-module operation Wavelength-stabilized output suitable for precision component and system characterization Typical Applications WDM component and system testing Optical fiber characterization Multi-wavelength performance validation Wavelength-dependent loss and dispersion measurement Compatibility & Integration Designed exclusively for the FOM-7900B Fiber Optic System Mainframe. Part of the fourth-generation FOS-79800 series platform. Status: Obsolete. Manufacturer support, calibration, and repair services are no longer available from ILX Lightwave.

FOS79800B Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	ILX FOS-79800B / 79800 series DFB
Host Mainframe	FOM-7900BCBand Wavelength Window: 1528 to 1564 nmLBand Wavelength Window: 1564 to 1610 nm
Output Power 10 mW Grade	greater than or equal to 10 dBm
Output Power 20 mW Grade	greater than or equal to 13 dBm
Power Stability 15 Minutes	less than or equal to 0.005 dB rms
Power Stability 24 Hours	plus or minus 0.03 dB
Attenuation Calibrated Range	10 dB
Attenuation Full Range Typical	15 dB
Attenuation Accuracy	plus or minus 0.1 dB
Wavelength Accuracy	plus or minus 0.05 nm
Wavelength Stability 15 Minutes	plus or minus 0.003 nm
Wavelength Stability 24 Hours	plus or minus 0.005 nm
Tuning Range	plus or minus 0.85 nm
Spectral Width Coherence Off	less than 30 MHz
Spectral Width Coherence On Typical	1 GHz
Mainframe Bays	up to 8 modules per FOM-7900B
Remote Interface Via Mainframe	GPIB IEEE 488.2
Modulation Sync Class	mainframe trigger to 500 kHz class
Fiber Type	singlemode
Series Family	ILX 7900B fiber optic sources
Wavelength stability	15 Minutes: plus or minus 0.003 nm
Attenuation	Calibrated Range: 10 dB
Power stability	15 Minutes: less than or equal to 0.005 dB rms

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications

Technical Specifications

PARAMETER	VALUE
Instrument Family	ILX FOS-79800B / 79800 series DFB
Host Mainframe	FOM-7900B
C Band Wavelength Window	1528 to 1564 nm
L Band Wavelength Window	1564 to 1610 nm
Output Power 10 mW Grade	greater than or equal to 10 dBm
Output Power 20 mW Grade	greater than or equal to 13 dBm
Power Stability 15 Minutes	less than or equal to 0.005 dB rms
Power Stability 24 Hours	plus or minus 0.03 dB
Attenuation Calibrated Range	10 dB
Attenuation Full Range Typical	15 dB
Attenuation Accuracy	plus or minus 0.1 dB
Wavelength Accuracy	plus or minus 0.05 nm
Wavelength Stability 15 Minutes	plus or minus 0.003 nm
Wavelength Stability 24 Hours	plus or minus 0.005 nm
Tuning Range	plus or minus 0.85 nm
Spectral Width Coherence Off	less than 30 MHz
Spectral Width Coherence On Typical	1 GHz
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Attenuation Full Range Typical	15 dB
Attenuation Accuracy	plus or minus 0.1 dB
Wavelength Accuracy	plus or minus 0.05 nm
Wavelength Stability 15 Minutes	plus or minus 0.003 nm
Wavelength Stability 24 Hours	plus or minus 0.005 nm
Tuning Range	plus or minus 0.85 nm
Spectral Width Coherence Off	less than 30 MHz
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Mainframe Bays	up to 8 modules per FOM-7900B
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Modulation Sync Class	mainframe trigger to 500 kHz class
Fiber Type	singlemode
Series Family	ILX 7900B fiber optic sources

Notes
Numeric rows from ILX 79800D/315 Series WDM DFB Fiber Optic Source Module OEM specification tables for the FOM-7900B platform that supersedes/extends 79800B-generation modules. Confirm exactBversusDrevision, C/L band, and 10/20 mW grade on the module faceplate.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: **sales@aumictech.com** · +1 (484) 841-9341

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