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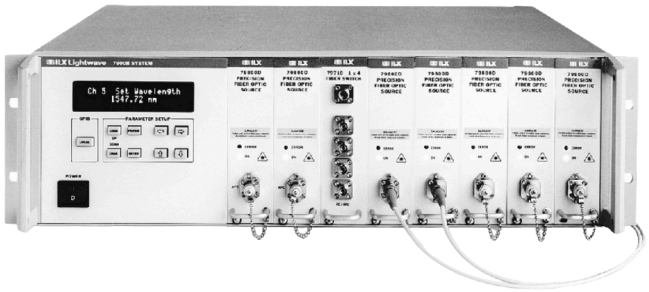
Data Sheet
August 14, 2026

ILX LIGHTWAVE

ILX Lightwave FOS79800

The ILX Lightwave FOS-79800 is a precision optical source designed for testing and characterizing fiber optic components and systems. It offers stable and accurate optical power output, adjustable wavelength settings, and versatile modulation capabilities. Ideal for laboratory and production environments.



MODEL ILX Lightwave FOS79800	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU FOS79800	LISTING https://aumictechlabs.com/products/fos79800-2/

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

This unit

The ILX Lightwave FOS-79800 Series WDM DFB Fiber Optic Source Modules are precision wavelength-tunable sources designed for testing and characterization of fiber optic components and systems in WDM environments. When integrated into the FOM-7900B mainframe, these modules deliver stable, accurate optical power across the S-, C-, L-, and Extended L-bands with 1 pm resolution tuning and adjustable modulation. They provide exceptional wavelength and power stability for laboratory and production testing applications. Technical Specifications Wavelength Range: 1475 nm to 1625 nm (S-band: 1475–1527.97 nm; C-band: 1527.98–1564.26 nm; L-band: 1564.27–1610 nm; Extended L-band: 1610.01–1625 nm) Service Channel Wavelengths: 1310 nm, 1480 nm, 1510 nm, 1625 nm (±5 nm) Wavelength Tuning: User-selectable ITU grid or custom; 1 pm resolution over 1.7 nm range Output Power: 10 dBm minimum (315X1 series); 13 dBm minimum (315X2 series); 9–20 mW maximum range Power Stability: <0.005 dB rms; ±0.003 dB over 15

minutes Wavelength Stability: ±0.003 nm; ±3 pm for 90 days post-calibration; ±50 pm for one year Spectral Linewidth: 30 MHz to 1 GHz (coherence control adjustable) Attenuation Accuracy: ±0.1 dB from maximum power down to 5 dB Key Features Processor-controlled modulation (1–500 kHz) with 100% depth, 50% duty cycle Synchronous multi-module modulation via mainframe trigger capability Coherence control for SBS suppression and reflection-induced stability improvement Optional source shutter for simplified channel equalization PM alignment and custom connector options available Typical Applications WDM system and component characterization Channel equalization and power balancing Fiber optic component testing in laboratory and production environments Compatibility & Integration These modules operate exclusively within the ILX Lightwave FOM-7900B Fiber Optic System Mainframe, which provides power supply, control processing, and multi-module synchronization infrastructure.

Features & description

From manufacturer datasheet

High power stability class

Telecom wavelength options class Modular FOS system architecture class GPIB or local control class Technical Specifications Instrument Family: ILX FOS-79800C fiber optic source Source Type: laser fiber coupled Wavelength Options Class: telecom band laser class Output Power Class: calibrated mW/dBm class Power Stability Class: high stability class Fiber Type: singlemode Connector Interface: FC/PC or APC class Form Factor: modular FOS chassis or benchtop class Remote Control: GPIB class on family Display: wavelength and power class Operating Temperature Class: laboratory Series Family: ILX FOS-79800 Modulation Class: configuration dependent Safety: laser product class per label Output Attenuator Path: configuration dependent Warmup: specified stability after warm-up Spectral Width Class: laser linewidth class Notes Identity and capability rows from ILX FOS-79800C literature. Confirm exact wavelength output power and stability on the module/system datasheet and calibration certificate.

FOS79800 Characteristics / Specifications

PARAMETER	VALUE
Instrument Family	ILX FOS-79800C fiber optic source
Source Type	laser fiber coupled
Wavelength Options Class	telecom band laser class
Output Power Class	calibrated mW/dBm class
Power Stability Class	high stability class
Fiber Type	singlemode
Connector Interface	FC/PC or APC class
Form Factor	modular FOS chassis or benchtop class
Remote Control	GPIB class on family
Display	wavelength and power class
Operating Temperature Class	laboratory
Series Family	ILX FOS-79800
Modulation Class	configuration dependent
Safety	laser product class per label
Output Attenuator Path	configuration dependent
Warmup	specified stability after warm-up
Spectral Width Class	laser linewidth class
Linewidth	class
Power stability	Class: high stability class
Operating temperature	Class: laboratory

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	Class: laboratory
Operating Temperature	Class: laboratory
Operating Temperature Class	laboratory
Series Family	ILX FOS-79800
Modulation Class	configuration dependent
Safety	laser product class per label
Output Attenuator Path	configuration dependent
Warmup	specified stability after warm-up
Spectral Width Class	laser linewidth class Notes Identity and capability rows from ILX FOS-79800C literature. Confirm exact wavelength output power and stability on the module/system datasheet and calibration certificate.

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

Specifications

PARAMETER	VALUE
Instrument Family	ILX FOS-79800C fiber optic source
Source Type	laser fiber coupled
Wavelength Options Class	telecom band laser class
Output Power Class	calibrated mW/dBm class
Power Stability Class	high stability class
Fiber Type	singlemode
Connector Interface	FC/PC or APC class
Form Factor	modular FOS chassis or benchtop class
Remote Control	GPIB class on family
Display	wavelength and power class
Operating Temperature Class	laboratory
Series Family	ILX FOS-79800
Modulation Class	configuration dependent
Safety	laser product class per label
Output Attenuator Path	configuration dependent
Warmup	specified stability after warm-up
Spectral Width Class	laser linewidth class

Notes
Identity and capability rows from ILX FOS-79800C literature. Confirm exact wavelength output power and stability on the module/system datasheet and calibration certificate.

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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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.