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Data Sheet

August 15, 2026

ILX LIGHTWAVE

ILX Lightwave FOS-79800F 315C2 – WDM DFB Fiber Optic Source Modules

The ILX Lightwave FOS-79800F 315C2 is a WDM DFB fiber optic source module engineered for wavelength division multiplexing applications requiring precise, stable light generation across the C-band. This plug-in module delivers 10–20 mW of output power with exceptional wavelength and power stability, making it ideal for characterizing WDM systems, EDFAs, SOAs, and fiber optic components. The module integrates dual-stage temperature control and low-noise laser current control to ensure reliable performance in demanding test environments.

Wavelength Stability: ± 3 pm (typical); ± 25 pm over 90 days post-calibration; ± 50 pm over one year
Power Stability: ± 0.003 dB typical (15 minutes); ± 0.005 dB rms (15 minutes); ± 0.03 dB (24 hours)
Modulation: Internal synchronous modulation to 500 kHz; 100% depth, 50% duty cycle; TTL-level outputs (normal and inverted)



MODEL

**ILX Lightwave
FOS-79800F
315C2**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

**FOS-79800F
315C2**

LISTING

<https://aumictechlabs.com/products/fos-79800f-315c2-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The ILX Lightwave FOS-79800F 315C2 is a WDM DFB fiber optic source module engineered for wavelength division multiplexing applications requiring precise, stable light generation across the

C-band. This plug-in module delivers 10–20 mW of output power with exceptional wavelength and power stability, making it ideal for characterizing WDM systems, EDFAs, SOAs, and fiber optic components. The module integrates dual-stage temperature control and low-noise laser current control to ensure reliable performance in demanding test environments.

Technical Specifications

Wavelength Range: 1527.98–1564.26 nm (user-specified within C-band) Output Power: 10–20 mW (minimum 13 dBm) Wavelength Stability: ± 3 pm (typical); ± 25 pm over 90 days post-calibration; ± 50 pm over one year Power Stability: ± 0.003 dB typical (15 minutes); ± 0.005 dB rms (15 minutes); ± 0.03 dB (24 hours) Attenuation: 10 dB calibrated range; 15 dB typical full range; ± 0.1 dB accuracy Modulation: Internal synchronous modulation to 500 kHz; 100% depth, 50% duty cycle; TTL-level outputs (normal and inverted) Coherence Control: Linewidth broadening from 30 MHz to 1 GHz Optical Interface: FC/APC

Key Features

- Picometer resolution for precise wavelength tuning
- High output power (up to 20 mW) with ± 0.1 dB attenuation accuracy
- Processor-controlled modulation supporting synchronized multi-module operation
- Coherence control reduces reflection-induced instabilities in single-mode fiber
- Gain flatness testing capability through high-resolution attenuation

Typical Applications

- WDM system characterization and component testing
- EDFA and SOA gain measurements
- Fiber optic component evaluation
- Channel equalization and gain flatness analysis

Compatibility & Integration

Designed for the ILX Lightwave FOM-7900B Fiber Optic System Mainframe. Full control via front-panel menu or GPIB/IEEE-488 and RS-232 remote interfaces. Multiple mainframes can be linked for expanded test configurations.

FOS79800F315C2 Characteristics / Specifications

PARAMETER	VALUE
Model Family	FOS-79800 FOS-79800D FOS-79800F
Module Series	315
Wavelength RangeCBand 315C	1528 nm to 1564 nm
Wavelength RangeLBand 315L	1564 nm to 1610 nm
Output Power 315x	greater than or equal to 10 dBm
Power Stability 15 Minutes	less than or equal to 0.005 dB rms
Wavelength Accuracy Class	plus or minus 0.05 nm
Mainframe	FOM-7900B
Modules Per Mainframe	8
System Expansion Class	up to 200 channels across linked mainframes
Internal Modulation Frequency	0.1 to 500 kHz
External Modulation Input Frequency	1 to 500 kHz
Channel Sync Skew Class	less than 100 ns
Modulation Output	TTL
Remote Interface	GPIB IEEE-488.2 via mainframe
Connector Class	FC/APC fiber output
Form Factor	7900 plug-in module
Manufacturer	ILX Lightwave
Attenuation	calibrated attenuator on module
Coherence Control	selectable
Related Module	FOS-79710 fiber optic switch
Related Meter	DPM-79810 dual power meter
Power stability	15 Minutes: less than or equal to 0.005 dB rms

FOS79800F315C2 Specifications

PARAMETER	VALUE
Applications	DWDM transmitter simulation, multi-channel WDM component test, and synchronized multi-source optical stimulus in FOM-7900B systems.
Optional source shutter	GPIB control via 7900B mainframe
Technical Specifications	Model Family: FOS-79800 FOS-79800D FOS-79800F

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
Model Family	FOS-79800 FOS-79800D FOS-79800F
Module Series	315
Wavelength RangeCBand 315C	1528 nm to 1564 nm
Wavelength RangeLBand 315L	1564 nm to 1610 nm
Output Power 315x1	greater than or equal to 10 dBm
Output Power 315x2	greater than or equal to 13 dBm
Power Stability 15 Minutes	less than or equal to 0.005 dB rms
Wavelength Accuracy Class	plus or minus 0.05 nm
Mainframe	FOM-7900B
Modules Per Mainframe	8
System Expansion Class	up to 200 channels across linked mainframes
Internal Modulation Frequency	0.1 to 500 kHz
External Modulation Input Frequency	1 to 500 kHz
Channel Sync Skew Class	less than 100 ns
Modulation Output	TTL
Remote Interface	GPIO IEEE-488.2 via mainframe
Connector Class	FC/APC fiber output
Form Factor	7900 plug-in module
Manufacturer	ILX Lightwave
Attenuation	calibrated attenuator on module
Coherence Control	selectable
Related Module	FOS-79710 fiber optic switch
Related Meter	DPM-79810 dual power meter
Notes	
From ILX 79800D/315 Series WDM DFB Fiber Optic Source Modules datasheet. FOS-79800F 315C2 inventory units are C-band 13 dBm class 315C2 modules in the same family.	

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

Aumictech

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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.