

ILX LIGHTWAVE

FOS-79800D

The ILX Lightwave FOS-79800D (Model 79800D/315 Series) represents a high-performance family of WDM DFB fiber optic source modules designed for demanding WDM system and component testing. Operating within the ILX Lightwave 7900B modular optical test system mainframe, these modules offer high output power, precise wavelength tuning, coherence control, and high stability across C-band and L-band wavelengths.

SPECIFICATIONS

General

Interfaces	GPIB (facilitated via 7900B mainframe)
Display	Mainframe-controlled (via 7900B front panel)
Fiber Type	9/125 μ m single mode

Physical

Power Supply	Supplied by FOM-7900B mainframe
Operating Temperature	0 to 40 °C °C

Optical Performance

Wavelength Range (315C1 / 315C2)	1528 to 1563 nm (C-band)
Wavelength Range (315L1 / 315L2)	1563 to 1610 nm (L-band)
Minimum Output Power (315C1 / 315L1)	≥ 10 dBm
Minimum Output Power (315C2 / 315L2)	≥ 13 dBm
Wavelength Tuning Range	± 0.85 nm
Spectral Width (Coherence Control ON)	1 GHz (typical)
Side Mode Suppression Ratio (SMSR)	>40 dB (>45 dB typical)
Optical Isolation	>30 dB
Optical Connector Type	FC/APC

Attenuation & Control

Calibrated Attenuation Range	10 dB
Full Attenuation Range	15 dB (typical)

Shutter Specifications

Optional Shutter Transition Time (Off to On)	30 ms
Optional Shutter Transition Time (On to Off)	10 ms
Optional Shutter Lifetime	>10 million cycles

System Integration

Compatible Mainframe	ILX Lightwave 7900B Fiber Optic System Mainframe
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Wavelength

Wavelength Tuning Resolution	1 pm (0.001 nm)
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Stability

Wavelength Stability (1 hour)	<±0.002 nm
Wavelength Stability (24 hours)	<±0.005 nm
Power Stability (1 hour)	<±0.005 dB
Power Stability (24 hours)	<±0.03 dB

Power & Attenuation

Attenuation Resolution	0.01 dB
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Environmental

Storage Temperature	-40 to 70 °C
Maximum Operating Humidity	85% R.H. (non-condensing)

Performance

Warm-up Time	1 hour (to meet specifications)
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TECHNOLOGY

Distributed Feedback (DFB) Laser

APPLICATIONS

WDM System and Component Testing

Generated by SpecAtlasHub (specatlashub.com). Specifications are compiled from available sources and are subject to change — verify critical values against the manufacturer before purchase.