

COMPANY INFO**WHAT'S NEW****OUR PRODUCTS****Power/Wavelength****Meters****► Multi-Channel Sources****Fiber-Optic Sources****Laser Diode Controllers****Laser Diode Current****Sources****Temperature Controllers****Laser Diode Analysis****Mounts****Accessories****HOW TO ORDER****CUSTOMER SERVICE****ILX TECH LIBRARY****EMPLOYMENT****Features****Brochure****► Specifications****Request for Quote****Tech Notes****LabView Drivers**

Multi-Channel Sources
Family
7900B
Multi-Channel Fiber
Optic Test System

[7900 Mainframe](#) : [79800D/315 Series](#) : 79710 Fiber Optic Switch

79710 Fiber Optic Switch

Model



79710 Fiber Optic Switch Module is designed and optimized for high return loss, low insertion loss and excellent stability. This optically passive fiber optic switch is transparent to signal formats and bandwidths as well as being bi-directional in operation. A choice of timed, random, sequential or triggered switching modes enhances switch module functionality.

When installed in the 7900B System Mainframe, the switch module is controlled by an easy-to-use front panel or GPIB-accessible command set. The 79710 permits the user to switch the input of a single fiber optic channel to any one of the 4 outputs via the 7900B control panel. There is also a ?blocking? position that switches the input to a zero reflection termination. The user also will be able to program a switch sequence and initiate sequential switching through either an external trigger or internally by defining a switch interval time.

Typical applications of the switch module include routing a signal around the device under test (DUT) to take a reference measurement, sequential switching of the test signal to numerous DUTs, or testing of a single DUT at sequentially switched wavelengths.

**79710 Fiber
Optic
Switch Specs**

Ordering Information

Specifications			
Configuration	1 X 4		Mainframe /
Wavelength range	1290 ~ 1650 nm	FOM-7900B	Processor with 8 bay capacity (includes GPIB/IEEE 488.2 interface)
Fiber type	9/125, SMF 28		WDM DFB 10 mW Source Module
Connector type ¹	FC/APC	FOS-79800D/315C1	(1527.98-1564.26 nm user specified wavelength)
Insertion loss ²			WDM DFB 10 mW Source Module
Typical	1.2 dB		(1564.27 - 1610.06 nm user specified wavelength)
Maximum ³	1.7 dB		WDM DFB 20 mW Source Module
Crosstalk	< or = -80 dB	FOS-79800D/315L1	(1564.26 - 1610.06 nm user specified wavelength)
Polarization dependent loss ⁴	< or = 0.05 dB		WDM DFB 20 mW Source Module
Repeatability ⁵	< or = ±0.03 dB	FOS-79800D/315C2	(1527.98-1564.26 nm user specified wavelength)
Switching time ⁶	300 ms + 16 ms/channel		WDM DFB 20 mW Source Module
Maximum continuous input power	+24 dBm	FOS-79800D/315L2	(1564.26 - 1610.06 nm user specified wavelength)
Return loss	< or = 55 dB		Customer Supplied Source Module
Switch life	< or = 10 million cycles	FOS-79800D/000	Fiber Optic Switch Module
Operating temperature	15°C ~ 35°C	FOS-79710	Source Shutter Option (not compatible with PM alignment)
Storage temperature	-20°C ~ +70°C	SS-810	Per Channel PM Alignment
Operating humidity	< 85% relative		
		PM Alignment	

Notes

1. Other connector options available upon request.
2. Measured at $23 \pm 5^{\circ}\text{C}$.
3. Maximum insertion loss, any module output port.
4. Measured at 1550 nm.
5. Sequential switching, 100 cycles measured at constant temperature after module warmup.
6. Excluding GPIB and mainframe processor latency.

In keeping with our commitment to continuous improvement, ILX Lightwave reserves the right to change specifications without notice and without liability for such changes.

Last modified on Tuesday,
05-Dec-2000 13:48:42 PST