

1x32 OPTICAL SWITCH

Product Description

Lightwave Link Inc. 1x32 Fiber Optical Switches optimized for a wide range of fiber-optic applications. Design is based on worldwide telecommunications, data communication, system monitoring and component testing requirements. This 1x32 OSW Module has 1 Input Port, 32 Output Ports or 32 Input Ports, 1 Output port. The Module is controlled by a set of electrical connections. Electrical feedback will be provided by the Module indicating which state the optical switch is in. Lightwave Link Inc. 1x32/ 32x1 OSW Module fully complies with RoHS Directive 2011/65/EU.



Features

- Low Loss and High Reliability
- Parallel Interface (TTL) or Serial interface (TTL)
- Modularized Design
- Epoxy-free on Optical Path

Applications

- Ring Network
- Remote Monitoring in Optical Network
- Testing of Fiber, Optical Component

Performance Specification

Parameters	Unit	FOSW-1x32	
Wavelength Range	nm	SM: 1260~1650	MM: 850±40/1300±40 or 1260~1650
Test Wavelength	nm	SM: 1310/1550	MM: 850/1300 or 1550
Insertion Loss ^{1·2}	dB	Typ: 0.6 Max: 0.8	
Return Loss ^{1·2}	dB	SM ≥ 50	MM ≥ 30
Crosstalk ¹	dB	SM ≥ 70	MM ≥ 55
PDL	dB	≤ 0.10	
WDL	dB	≤ 0.25	
Repeatability	dB	≤ ±0.05	
Durability	Cycles	≥ 10 ⁷	
Switching Time	ms	10 (Sequence switch time of adjacent channel)	
Optical Power	mW	≤ 500	
Operating Temperature	°C	-20 ~ +70	
Storage Temperature	°C	-40 ~ +85	
Relative Humidity	%	5 ~ 95	
Dimension	mm	130×112×32	
Control interface	--	Parallel port or serial port(RS232 or TTL)	

Remarks:

1. Within operating temperature and under standard operating procedures
2. Excluded Connector