



MINI 1x4 / 4x1 OPTICAL SWITCH

Product Description

Lightwave Link Mini 1X4 / 4X1 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 Mini 1x4 / 4x1 OSW Module has 1 Input Port, 4 Output Ports or 4 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. Mini 1x4 / 4x1 OSW Module fully complies with RoHS Directive 2011/65/EU.



Features

- Compact Size
- Low Insertion-Loss
- Fast Switching Speed
- Built-In position monitoring
- Latching Type available
- RoHS Compliance

Applications

- Optical network monitoring
- Optical measurement systems

Performance Specification

Parameter	9μm Core Single Mode			50μm or 62.5μm Core Multi Mode			Unit
	Min.	Typ.	Max.	Min.	Typ.	Max.	
Wavelength Range ¹	1260~1630			850/1300			nm
Insertion Loss ²		1.0	1.6		0.8	1.2	dB
Return Loss		-50					dB
PDL			0.1				dB
WDL			0.3				dB
Crosstalk		-80			-80		dB
Repeatability			±0.1			±0.1	dB
Switching Time ³			5			5	ms
Absolute Optical Input Power			500			500	mW
Operating Current	Latching: 120±10% / Non-Latching: 96±10%						mA
Operating Voltage	4.5	5.0	5.5	4.5	5.0	5.5	VDC
Power Consumption	Latching: 800±10% / Non-Latching: 480±10%						mW
Switching Life Expectancy	3x10 ⁷			3x10 ⁷			Cycles
Operation Temperature-Normal	-5		70	-5		70	°C
Operation Temperature-Special	-20		70	-20		70	°C
Storage Temperature	-40		85	-40		85	°C
Operation Humidity	5		95	5		95	%RH
Storage Humidity	5		95	5		95	%RH
Dimension (H*W*L)	15 x 44x 65						mm
Weight ⁴	<100						g

1. Special wavelength would be upon request.
2. Optical parameters excluded connectors.
3. A minimum ≥ 20 ms pulse is recommended for latching type of switch.
4. The product weight excluded optical connectors.