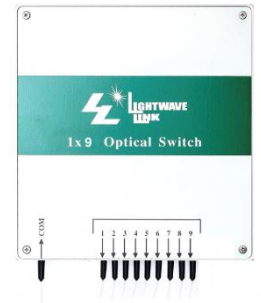# 1x9 / 9x1 OPTICAL SWITCH

Product Description

Lightwave Link Inc. 1×9 / 9×1 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 1×9 / 9X1 OSW Module has 1 Input Port, 9 Output Ports or 9 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. 1×9 / 9×1 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			Unit
	Min.	Typ.	Max.	
Wavelength Range [1]		1260~1630		nm
Insertion Loss [2]		1.5	2.0	dB
Insertion Loss variation			0.8	dB
Return Loss		-50		dB
PDL			0.1	dB
WDL			0.3	dB
Crosstalk		-80		dB
Directivity / Isolation			-80	dB
Repeatability			±0.1	dB
Switching Time [3]			4	ms
Absolute Optical Input Power			500	mW
Supply Voltage			6.6	VDC
Supply power			1.5	W
Operating Current		260±10%		mA
Operating Voltage	4.5	5.0	5.5	VDC
Power Consumption		1300±10%		mW
Switching Life Expectancy	$3x10^7$			Cycles
Operation Temperature-Normal	-5		70	℃
Operation Temperature-Special	-20		70	℃
Storage Temperature	-40		85	℃
Operation Humidity	5		95	%RH
Storage Humidity	5		95	%RH
Dimension (H*W*L)		16x110x130		mm
Weight [4]		270		g

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