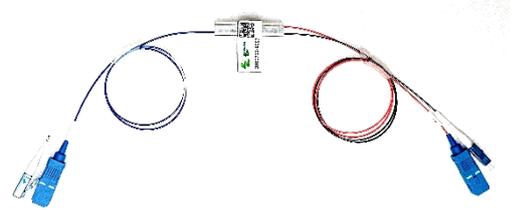# 2x2 OPTICAL SWITCH

Product Description

Lightwave Link Inc. 2x2 optical switch (OSW) provides channel selection between a pair of input fibers and output fibers. The switch is a compact device suitable for a wide range of applications; for example, optical networking system protection, measurement system, route diversity, reconfigurable add/drop module. The latching mechanism ensures the optical switch status remains in the selected state during power failure. Lightwave Link Inc. 2x2 optical switch fully complies with RoHS Directive 2011/65/EU.

Features

- Smallest Size
- Low Insertion-Loss
- Fast Switching Speed
- PCB Mountable
- Available in Single Mode / Multi Mode
- RoHS Compliance

Applications

- Optical network protection and restoration
- Optical network monitoring
- Reconfigurable add/drop multiplexers
- Transmission equipment protection
- Research and development
- Wavelength router

Performance Specification

Parameter	9/125 Single Mode[4]			50/125、62.5/125　Multi Mode			Unit
	Min.	Typ.	Max.	Min.	Typ.	Max.	
Operating Wavelength Range [1]	1260~1650			770~890, 1260~1360			nm
Insertion Loss [2]		0.8	1.0		0.8	1.0	dB
Return Loss	-50	-55					dB
PDL			0.05				dB
WDL			0.25				dB
Crosstalk		-55			-50		dB
Repeatability			±0.02			±0.02	dB
Switching Time [3]		5	8		5	8	ms
Absolute Optical Input Power			500			500	mW
Operating Voltage	Latching: 5 (Dual Coil) / Non-Latching: 5 (Single Coil)						VDC
Operating Current	Latching: 25.2~30.8 / Non-Latching: 25.2~30.8						mA
Switching Life Expectancy	$>10^7$			$>10^7$			Cycles
Operation Temperature-Normal	-5		70	-5		70	℃
Storage Temperature	-40		85	-40		85	℃
Operation Humidity	5		95	5		95	%RH
Storage Humidity	5		95	5		95	%RH
Dimension	(L)28.0×(W)12.6×(H)8.0						mm
Weight	16						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.