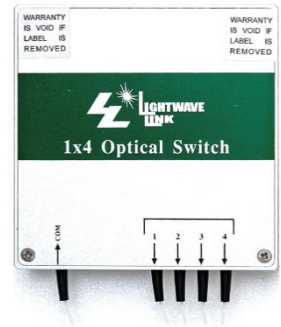




1x4 / 4x1 OPTICAL SWITCH

Product Description

Lightwave Link 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 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. 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 | | 0.8 | 1.2 | | 0.8 | 1.0 | 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: 600±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) | 18 x 76 x 76 | | | | | | mm |
| Weight ⁴ | 135 | | | | | | 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.