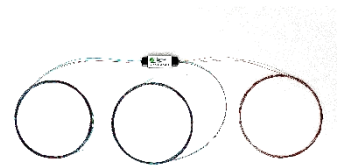


4X8 OPTICAL SWITCH

Product Description

Lightwave Link Inc. 4x8 optical switch is designed for use in optical fiber communication networks, measurement instruments and PCI-E Cards. The switch consists of two ports that selectively transmits, redirects, or blocks optical power in a fiber optic transmission line. The optical switch must be actuated to select or change between two states. Furthermore, for the Latching type, it only takes an electrical pulse width with duration ≥ 20 msec to change the state. As a result, it consumes low electric energy to operate the optical switch. Lightwave Link Inc. 4x8 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 | 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 | | | 0.6 | dB |
| Return Loss | | -55 | | | | | dB |
| PDL | | | 0.1 | | | | dB |
| WDL | | | 0.3 | | | | dB |
| Crosstalk | | -80 | | | -80 | | dB |
| Repeatability | | | ±0.1 | | | ±0.1 | dB |
| Switching Time ³ | | | 3.5 | | | 3.5 | ms |
| Absolute Optical Input Power | | | 500 | | | 500 | mW |
| Operating Current | Latching:40±10% / Non-Latching: 28±10% | | | | | | mA |
| Operating Voltage | 4.5 | 5.0 | 5.5 | 4.5 | 5.0 | 5.5 | VDC |
| Power Consumption | Latching: 200±10% / Non-Latching: 140±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) | 7.6 x 11 x 22.6 | | | | | | mm |
| Weight ⁴ | 10 | | | | | | 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.