

1x2 MEMS Fiber Optic Switch

The MEMS Latch Series 1x2 Fiber optic switch connects optical channels by redirecting incoming optical signals into selected output fibers. This is achieved using a patent pending MEMS configuration and activated via an electrical control signal.



Overview

High-Performance 1x2 MEMS Optical Switch

This 1x2 MEMS optical switch is engineered for demanding optical networking applications, offering high reliability and intrinsic tolerance to ESD. Its latching design ensures stable performance in critical environments. It is an ideal solution for channel blocking, system monitoring, and instrumentation.

Key Features

Features & Applications

High Reliability, Latching, ESD Tolerant, Channel Blocking, System Monitoring, Instrumentation

Performance Metrics

Key Performance Metrics

5 ms

Switch Time

500 mW

Transmission Power

1000000000 Cycles

Lifetime

Optical Specifications

| Parameter | Value |
|------------------|-----------------------|
| Wavelength Range | 1260~1620nm |
| Insertion Loss | Typ: 0.6, Max: 1.0 dB |
| Return Loss | e50dB |
| Crosstalk | e50dB |
| PDL | d0.10dB |
| WDL | d0.25dB |
| TDL | d0.20dB |

Environmental & Mechanical

Operating Conditions

- Operation Temperature: -5 to +70 °C
- Storage Temperature: -40 to +85 °C
- Repeatability: d±0.05 dB
- Repeatability Rate: 20 Hz

General Info

Switching Type

Latching