

# 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