

# 1x2 Solid-State Fiber Optic Switch

The 1x2 solid-state fiber optic switch redirects an incoming optical signal into a selected output fiber. It features low insertion loss, high extinction ratio, high channel isolation, and high reliability.



## Overview

### High-Performance 1x2 Solid-State Fiber Optic Switch

This 1x2 solid-state fiber optic switch is designed for high-reliability optical signal routing in demanding environments. It features exceptionally low insertion loss and fast switching speeds between 50 to 200 microseconds, making it ideal for system monitoring and configurable OADM applications. Built with an epoxy-free optical path, it ensures high stability and long-term durability for metropolitan area networks and laboratory R&D.

## Key Features

### Core Advantages

Low Insertion Loss, Wide Wavelength Range, Low Crosstalk, High Stability, High Reliability, Epoxy-free Optical Path

## Performance Metrics

### Key Performance Indicators

**0.7 dB**

Typical Insertion Loss

**50 us**

Switching Speed (Min)

**2 kHz**

Repetition Rate

**300 mw**

Optical Power Handling

## Technical Specifications

### Optical Parameters

Parameter	Value	Unit
Wavelength Range	1295~1325 / 1520~1580	nm
Testing Wavelength	1310 / 1550	nm
Return Loss	e 50	dB
Crosstalk	e 45	dB
PDL	d 0.10	dB
PMD	d 0.20	ps
TDL	d 0.25	dB

### Switching Mechanism

Latching • Non-latching

## Physical & Environmental

Dimensions	58.2(L) × 8.4(W) × 8.4(H) mm (±0.2)
Operating Temperature	-40 to +85 °C
Storage Temperature	-40 to +85 °C

## Applications

### Typical Applications

- Metropolitan Area Network
- R&D in Laboratory
- System Monitoring
- Configurable OADM
- Optical Communication Systems
- Instrumentation and Sensor Systems