

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