

Miniature Mechanical Fiber Optic Switch

This miniature mechanical switch is designed for optical signal routing. It features low insertion loss and high isolation.



ADDITIONAL IMAGES



Overview

Miniature Mechanical Fiber Optic Switch

This miniature mechanical fiber optic switch is designed for high-precision optical signal routing in compact environments. Featuring robust durability with a lifespan of 10 million cycles, it offers reliable performance for bypass switching, network protection, and signal monitoring. The device supports single-mode fiber (SMF-28) and provides excellent optical characteristics including low insertion loss and high isolation.

Optical Performance

Optical Specifications

Parameter	850 & 1310 nm	1260-1650 nm
Insertion Loss (dB)	d1.0	d1.2
WDL (dB)	d0.25	d0.30
Channel Cross Talk (dB)	e40	e55
Return Loss (dB)	e35	e55
Polarization Dependent Loss (PDL)	0.1 dB	

Mechanical & Electrical

Switching Speed	10 ms
Drive Voltage	5 V
Power Handling	500 mW
Durability	10 Million Cycles
Dimensions (L×W×H)	36×33×11.5 mm

Environmental

Operating Temperature	0 to 70 °C
Storage Temperature	-40 to 85 °C

Fiber Specifications

Fiber Type	SMF-28
Fiber Length	Customer Specify