

1×N MEMS Multimode Optical Switch (MEMS MMOS)

Description

The MEMS Multimode OS 1×N optical switch is a type of optical switch based on MEMS (Micro-Electro-Mechanical Systems) technology, allowing channel selection between a single input optical signal and N output optical signals. It features a compact size, long lifespan, and stable reliability, making it widely used in optical network fields such as OADM (Optical Add-Drop Multiplexer), OXC (Optical Cross-Connect), and OPM (Optical Power Monitor).

Key Features

- Mini Size
- Fast Switching Time
- Low Insertion Loss
- Enhanced Reliability and Exceptional Stability

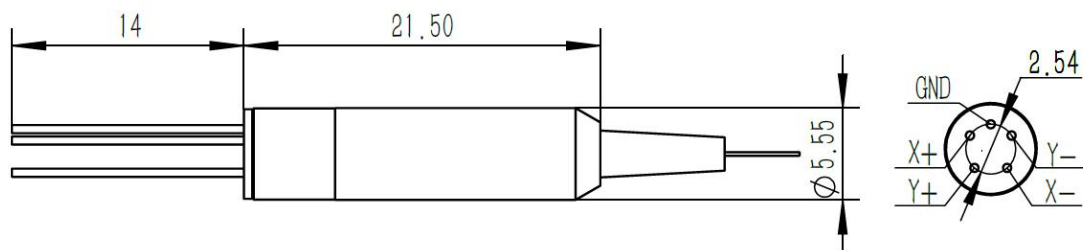
Applications

- Metropolitan Area Network
- Data Center
- Fiber Optic Sensing and Monitoring
- Instruments

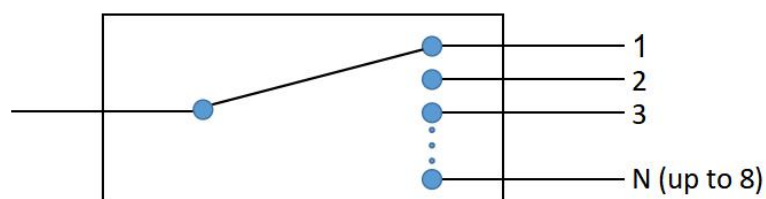
Follow the Standards

- Telcordia GR-1221
- Telcordia GR-1073

Mechanical Dimension



Optical Path Diagram



Specifications

Parameter \ Type	Unit	1×N (N≤8) MEMS MMOS
Center Wavelength	nm	850/1310
Insertion Loss	dB	≤0.8
Wavelength Dependent Loss	dB	≤0.3
Temperature Dependent Loss	dB	≤0.4
Return Loss	dB	≥30
Cross Talk	dB	≥30
Repeatability	dB	≤0.05
Response Time	ms	≤8
Switching Mode	/	Non-Latching
Handling Power	mW	≤500
Drive Voltage	V	≤60
Fiber Type	/	MMF
Operating Temperature	°C	-5~+70
Storage Temperature	°C	-40~+85
Operating Humidity	%	5~95
Dimensions	mm	Φ5.55×21.5

1. Specifications are without connectors. IL is 0.2dB higher and RL is 5dB lower for each connector added.
2. IL is measured at CWL, 23°C.
3. IL is for single-band. Dual-band adds 0.1dB.
4. Power off isolation is same as crosstalk.
5. WDL is measured in a +/- 20nm range at 23°C.
6. Repeatability is defined after 100 cycles.

Ordering Information

MEMS-MMOS-1*N-XXXX-XX-XXX-XX/XX-XX*XX

