

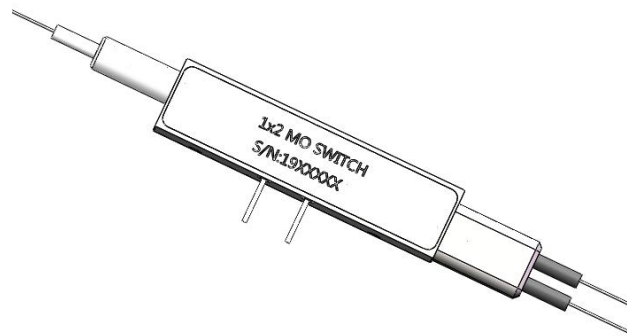


Product Description

- The μ s-series 1x2 solid-state fiber optical switch connects optical channels by redirecting an incoming optical signal into a selected output optical fiber. The switching of the optical light is realized by utilizing Faraday Effect.
- This is achieved using a patent protected non-mechanical configuration with solid-state all-crystal design which eliminates the need for mechanical movement. The μ s-series fiber optic switch is designed to meet the most demanding switching requirements of reliability, durability, response, and continuous high frequency switching operation.

Features

- No moving parts, best durability
- Ultra fast switching speed
- Extremely stable latching mode
- Easy to route -all fibers on same side
- Exceptional reliability and stability

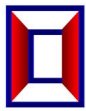


Applications

- Optical switching
- High speed protection
- System monitoring
- Test & measurement
- Fiber-optic sensing system

Specifications

| Item | Unit | Parameters | | Notes |
|------------------|---------|--|------------------------|----------------------|
| | | Unidirectional | Bidirectional | |
| Wavelength Range | nm | 1525~1565 | | Other band optional |
| Insertion Loss | dB | 0.7 (Typ.); 1.0 (Max.) | 0.8 (Typ.); 1.1 (Max.) | |
| PDL | dB | 0.1 (Typ.); 0.2 (Max.) | 0.1 (Typ.); 0.3 (Max.) | |
| Return Loss | dB | ≥ 40 (Typ 50) | ≥ 40 | |
| Cross-talk | dB | ≥ 40 (Typ 50) | ≥ 40 | |
| PMD | ps | 0.2 | | |
| Repeatability | dB | ± 0.01 | | |
| Durability | cycles | Regular (>100 Billions), Ultra-fast (>1000 Billions) | | |
| Switching Speed | μ s | Regular (50~200); Ultra-fast (5~20) | | Other speed optional |



| | | | |
|-----------------------|----|-----------|---------------------|
| Operating Temperature | °C | -5~70 | |
| Storage Temperature | °C | -40~85 | |
| Maximum Optical Power | mW | 500 | High power optional |
| Dimension(L×W×H) | mm | 32.8x8× 7 | (含端帽 51.8x8x7) |

Note:

1. All the specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature.
2. Specifications are subject to change without notice.

Electrical Specifications

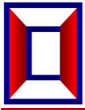
| Parameters | Specifications | | Unit |
|-------------------------|--------------------------|---------------|------|
| | Regular | Ultra-fast | |
| Switching Speed | 50~200 | 5~20 | μs |
| Switching Voltage (VCC) | 3(+/-5%) | 5~7.5 | V |
| Switching Current | < 100 | < 350 | mA |
| Driving Mode | Voltage or Pulse Driving | Pulse Driving | NA |
| Pulse Width (typical) | 1000 | 20 | μs |
| Claim Frequency | <800 | < 3000 | Hz |

Unidirectional Pin Definition

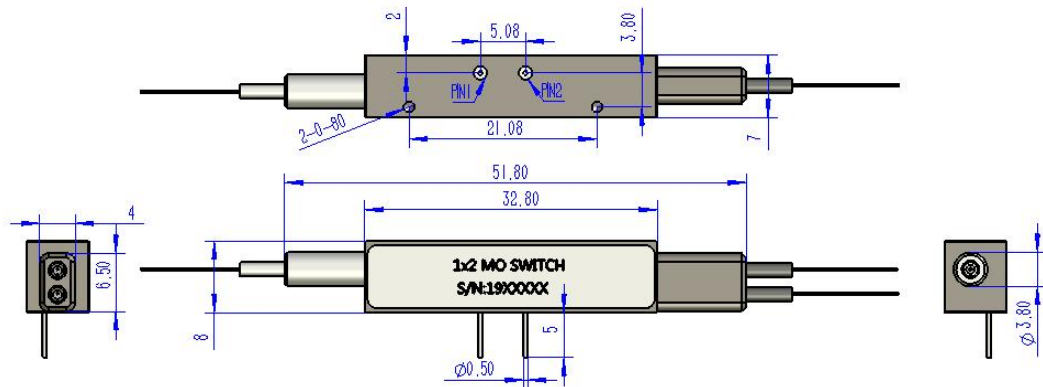
| Pin1 | Pin2 | The Optical OutputPort |
|------------------|------------------|------------------------|
| 1(Voltage = VCC) | 0(Voltage = GND) | IN → OUT1 |
| 0(Voltage = GND) | 1(Voltage = VCC) | IN → OUT2 |

Bidirectional Pin Definition

| Pin1 | Pin2 | The Optical OutputPort |
|------------------|------------------|------------------------|
| 1(Voltage = VCC) | 0(Voltage = GND) | IN ↔ OUT1 |
| 0(Voltage = GND) | 1(Voltage = VCC) | IN ↔ OUT2 |



机械尺寸 (mm)



订购信息(Example: PMMS-111210)

| PMM S- | A | B | C | D | E | F | G |
|--------|-------------------------------|-------------------------------------|--|---------------------------------|--|---|---|
| | Working Mode | Switching Speed | Operating Wavelength | Fiber Tuber | Fiber Length | Fiber Type | Connector Type |
| | 1.Regular 2. Bidirectional | 1.50~200us 2.5~20us 3. Others | 1.C Band1525~1565 nm 2. L Band 1565-1615 nm 3. C & L Band 4. Others | 1.250μm 2.900μm 3. Others | 1.0.5 +/- 0.1 m 2. 1.0 +/- 0.1 m 3. Others | 1.SMF-28 2.50/125M 3.62.5/125 MM 4.80um 细径 5.Others | 0.No Connector 1. FC/UPC 2. FC/APC 3. SC/UPC 4. SC/APC 5. LC/PC 6. MU/PC 7. Others |