

# MEMS 1xN( $2 \leq N \leq 8$ ) Polarization Maintaining Switch Device

OE photonics's 1xN Polarization Maintaining MEMS Switch is based on MEMS technology, this device could be used on channel selection between input fibers and output fibers. This product is designed with compact size, high durability and reliability, and it is widely used in optical network fields such as OADM and OXC.

## Features

- Compact Size
- High Repeatability and Stability
- Meets GR-1209 and GR-1221 Standards



## Applications

- Fiber Monitoring
- Data Center
- Fiber Sensing

## Specification

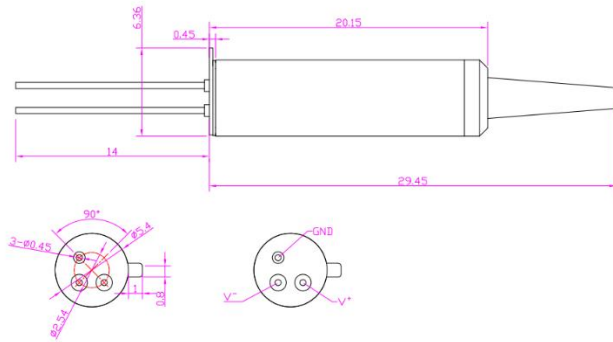
Parameters	Unit	PM		
		2	4	8
Channels	CH	2	4	8
Wavelength	nm	1310/1550±30		
Loss (Max)	dB	0.6	0.7	0.8
RL	dB	≥50		
Repeatability	dB	≤0.03		
Cross Talk	dB	≥50		
Extinction Ratio	dB	≥18		
PDL	dB	≤0.15		
WDL	dB	≤0.3@CWL±30nm, 23°C		
TDL	dB	≤0.3		
Operation Temperature	°C	-5~70		
Storage Temperature	°C	-40~85		
Response Time	ms	≤5		
Durability	Cycle	≥1×10 <sup>9</sup>		
Drive Voltage	V	≤10	≤60	

Notes:

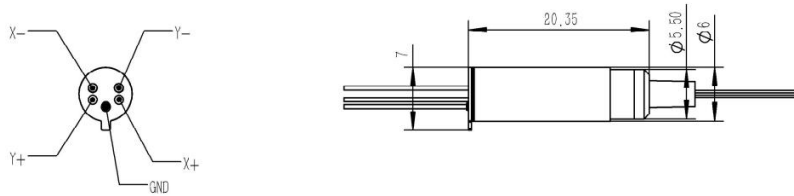
1. The loss is based on the test results at 23°C at the central wavelength ±30nm.
2. Repeatability is defined after 100 cycles.
3. Excluding connector, the insertion loss of connector is increased by 0.2dB.

## Mechanical Dimension

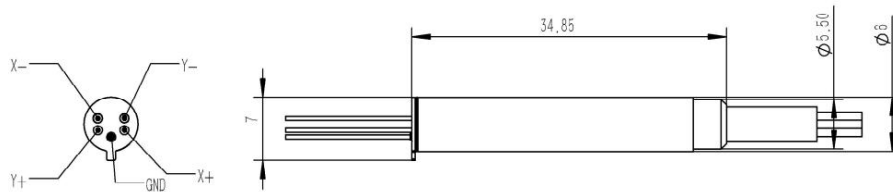
### 1x2 MEMS Switch (250um bare fiber/900um loose tube)



### 1x4/8 MEMS Switch (250um bare fiber)



### 1x4/8 MEMS Switch (900um loose tube)



## Order Information:

OE-MS-N-A-B-C-D-E-F (MS: MEMS Switch)

N	A	B	C	D	E	F
Channel	Package Type	Test Wavelength	Fiber Type	套管类型	Fiber Length	Connector Type
2	C1:1x2 Cylindrical	1310:1310nm	PM1310: PM1310	25:250um	05:0.5m±5cm	OO:None
4		1550:1550nm	PM1550: PM1550	90:900um	10:1.0m±5cm	FP:FC/PC
8	C2:1x4/8 Cylindrical	X: Others	X: Others	X: Others	15:1.5m±5cm X: Others	FA:FC/APC
						SP:SC/PC
						SA:SC/APC
						LP:LC/PC
						LA:LC/APC
						X:Others

Note:1. Above specifications just show the typical performance of Module.

2. Please contact our sales to discuss your specific requirements.