

1×4 Optical switch

◆ Features

- Unmatched Low Cost
- Low Insertion Loss
- High Channel Isolation
- High Stability, High Reliability
- Epoxy-free on Optical Path
- Latching and Non-latching

◆ Applications

- Optical Network Protection/Restoration
- Optical Signal Routing
- Configurable Optical Add/Drop
- Transmitter and Receiver Protection
- Network Test Systems
- Instrumentation



◆ Specifications

Parameters	Unit	OP-MOS-1x4		
Wavelength Range	nm	850±40 / 1310±40	850±40 or 1310±40	1260~1650
Test Wavelength	nm	850 / 1310		1310/1550,1260~1360,1510~1610
Insertion Loss 1, 2	dB	Max:1.4		
Return Loss 1, 2	dB	MM ≥ 35 SM ≥ 55		
Crosstalk 1	dB	MM ≥ 35 SM ≥ 55		
PDL	dB	≤0.1		
WDL	dB	≤0.30		
Repeatability	dB	±0.02		
Operating Voltage	V	3.0 or 5.0		
Durability	Cycles	≥ 10 Million		
Switching Time	ms	≤10		
Optical Power	mW	≤500		
Operating Temperature	°C	0 ~ +70		
Storage Temperature	°C	-40 ~ +85		
Relative Humidity	%	5 ~ 95		
Dimension	mm	(L)26.0x(W)25.5x(H)10.3 or Customer design		
Note: ¹ Within operating temperature and SOP.				
² Excluding Connectors.				

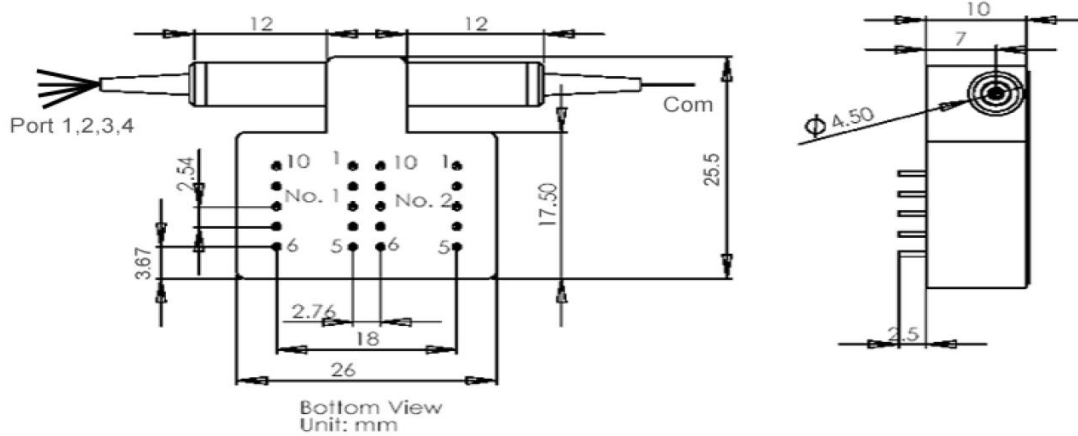
◆ Pin Configurations

Type	State	Electric Drive				Status Sensor			
		Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
Latching	0(Reset)	GND	GND	GND	V+	Close	Open	Open	Close
	1(Set)	V+	GND	GND	GND	Open	Close	Close	Open
Non-latching	0(Reset)	---	---	---	---	Close	Open	Open	Close
	1(set)	V+	---	---	GND	Open	Close	Close	Open

◆ Optical Route

Relay No.	1 Relay	2 Relay	Switch status
Relay Status	0	0	Com-Port1
	1	0	Com-Port2
	0	1	Com-Port3
	1	1	Com-Port4

◆ Dimension



◆ Ordering Information:

Fiber Type	Voltage	Switch type	Test Wavelength	TubeType	Fiber length	Connector
SM:SM,9/125	3:3V	L:Latching	850:850nm	25:250um	05:0.5m±5cm	FP:FC/PC,FA:FC/APC
M5:MM,50/125			1310:1310nm	90:90um	10:1.0m±5cm	SP:SC/PC,SA:SC/APC
M6:MM,62.5/125	5:5V	N:Non-latching	13/15:1310/1550nm	X:Others	15:1.5m±5cm	LP:LC/PC,LA:LC/APC
X: Others			X:Others	X:Others	OO:None,X:Others	