



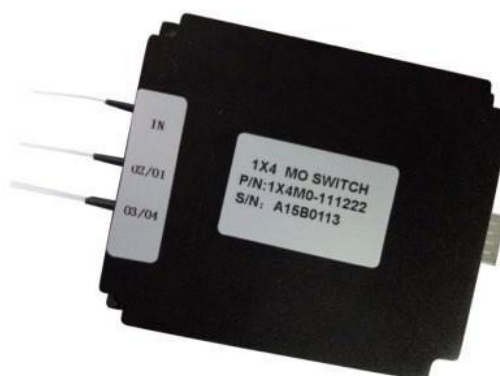
1 X4 C+L Magnet optical switch

Product features

Low insertion loss
compact structures
Us-class switching speed
ultra- low power consumption

Application

Passive Optical network
Measurement system
Network monitoring
Optical protection system



Technical parameters

Item	Unit	Parameters		Notes
		Irreversible	Reversible	
Wavelength range	nm	1525 ~ 1615		
Insertion loss	dB	2.0(Typ.); 2.5 (Max.)	2.3 (Typ.); 2.7 (Max.)	
Polarization dependent loss	dB	0.2 (Typ.); 0.3(Max.)		
Return loss	dB	40	30	
Crosstalk	dB	40	30	
Polarization mode dispersion	ps	0.3		
Repeatability	dB	+/- 0.01		
Continuity	cycles	> 30 Billions		
Switching speed	μs	200 ~ 400		
Operating temperature	°C	-5 ~ 70		
Storage temperature	°C	-40 ~ 85		
Optical power	mW	500		
Dimensions (L × W × H)	mm	90×76×17.5		

*. The loss of all specifications does not include the loss of connectors, and does not include the loss under special circumstances.



Drive pin definition

Pin No.	Pin1	Pin2	Pin3	Pin4	Pin5	Pin6
Definition	VCC	GND	Ctrl 0	Ctrl 1	NA	NA

Control signals and switching States

Table1: Pin control signal corresponding to switching status for unidirectional switch

Ctrl 0	0	0	1	1	0	0	1	1
Ctrl 1	0	1	0	1	0	1	0	1
Optical Path	IN→OUT 1	IN→OUT 2	IN→OUT 3	IN→OUT 4	OUT4→IN	OUT3→IN	OUT2→IN	OUT1→IN

Table2: Pin control signal corresponding to switching status for bidirectional switch

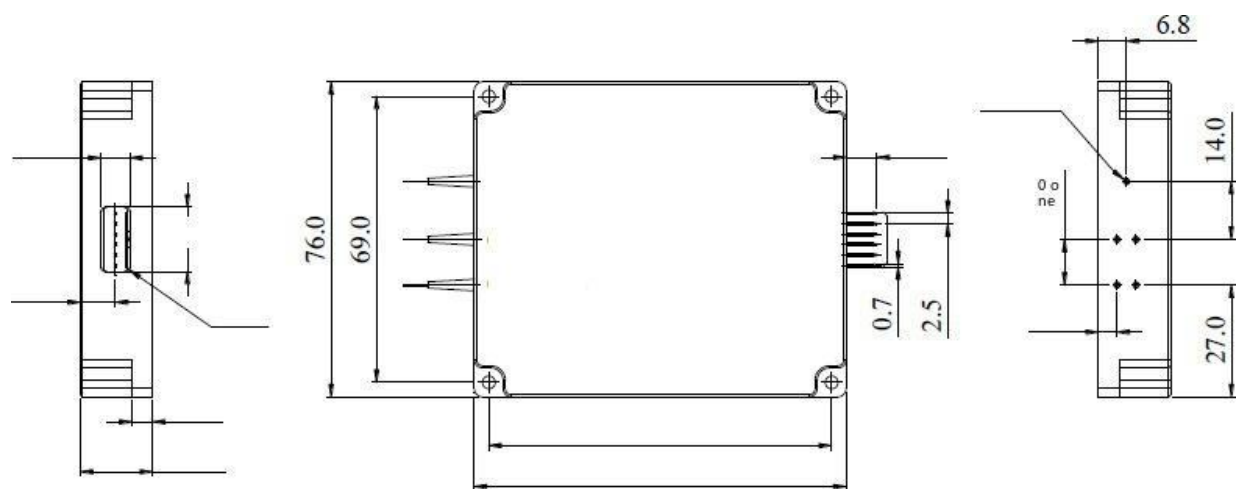
Ctrl 0	0	0	1	1
Ctrl 1	0	1	0	1
Optical Path	IN → OUT 1	IN → OUT 2	IN ← OUT 3	IN ← OUT 4

Electric control parameters

Parameter parameter	Specification	Unit
Switching Speed	200~400	μs
Switching Voltage (VCC)	5 (+/-5%)	V
Switching Current	< 200	mA
Pulse Width (typical)	1000	μs
Claim Frequency	<800	Hz

Note: Exceeding this drive voltage can damage the device.

Overall dimension (mm)



Ordering information HC - OSW-MOS-1×4 -A-B-C-D-E-F

A	B	C	D	E	F
Working mode	Switching speed	Operating wavelength	Fiber type	Fiber length	Connector type
1.Regular 2.Bidirectional	1.200~400us	1.CBand1525~1565 nm 2. L Band 1565-1615 nm 3.C & L Band 4.Others	1.250μm fiber 2.900μm fiber 3.Others	1.0.5 +/- 0.1 m 2. 1.0 +/- 0.1 m 3. Others	0.No Connector 1. FC/UPC 2. FC/APC 3. SC/UPC 4. SC/APC 5. LC/PC 6. MU/PC 7. Others