

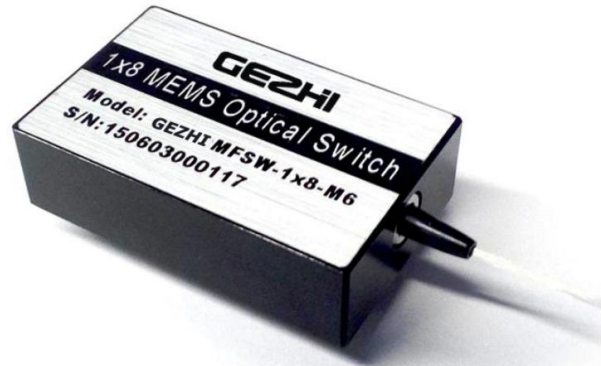
Applications

- ◆ DWDM networks
- ◆ Channel Monitor
- ◆ R&D in Laboratory
- ◆ Configurable OADM

Features

- ◆ Base on MEMS Technology
- ◆ Small package
- ◆ High Stability, High Reliability
- ◆ Epoxy-free on Optical Path
- ◆ Non-latching

1xN MEMS Optical Switch



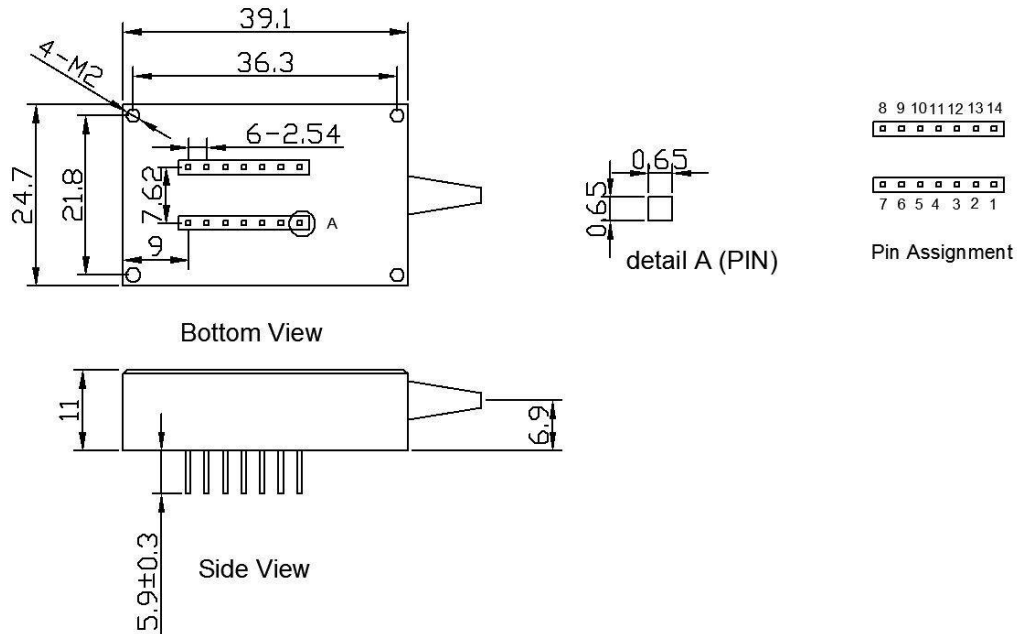
Specification

Parameters	Unit	GZ-FSW-MEMS-1×N(N≤24)	
Wavelength Range	nm	SM	MM
		1310±20 or 1550±20 or 1625±20	850±20 or 1310±20 or 1550±2
Test Wavelength	nm	1310 / 1550 / 1625	850 / 1310 / 1550
Insertion Loss _{1, 2}	dB	1.0(TYP) 1.2(MAX) N≤16 1.2(TYP) 1.8(MAX) N≤24	0.8(TYP) 1.0(MAX) N≤8 1.0(TYP) 1.5(MAX) N≤12
Return Loss _{1,2}	dB	≥40	≥25
Crosstalk ₁	dB	≥50	≥30
WDL	dB	≤0.3	
PDL	dB	≤0.15	
Repeatability	dB	≤±0.05	
Power Supply	V	5~12	
Durability	Cycles	≥109	
Switch Time	ms	≤20	
Transmission Power	mW	≤500	
Operating Temperature	℃	-5~+70	
Storage Temperature	℃	-40~+85	
Dimension	mm	(Type A) 39.1(L) x 24.7(W) x 11(H) ±0.2	
		(Type B) 65(L) x 24.7(W) x 11(H) ±0.2	

Note:

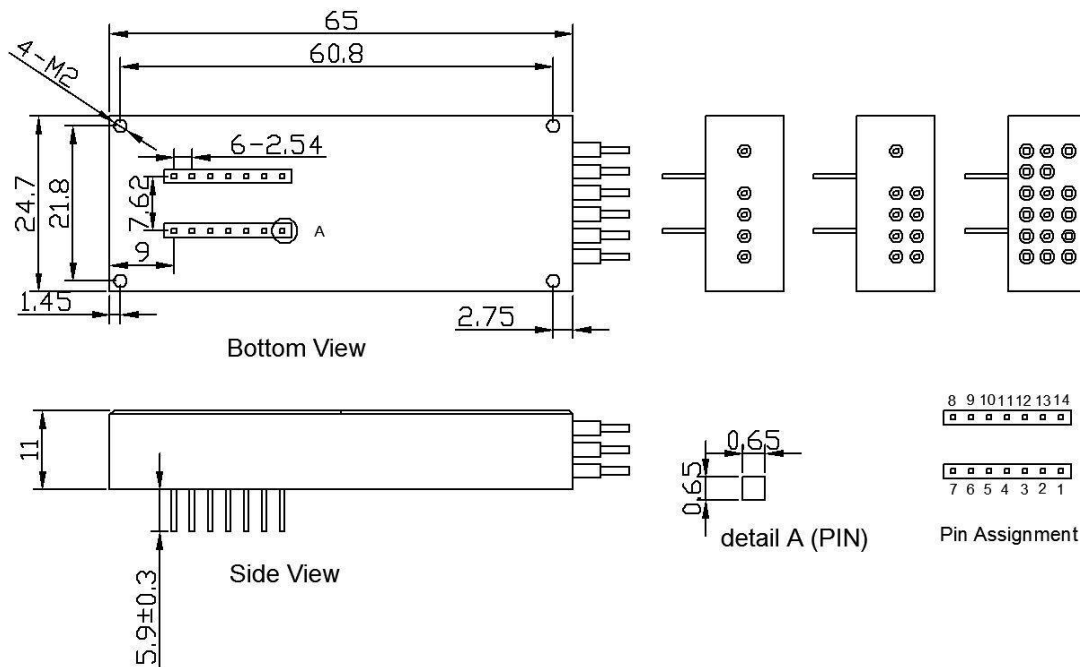
1. Within operating temperature and SOP.
2. Excluding connectors.

Dimensions



Package Type A

Tube Type:250um, N≤24



Package Type B

Tube Type:900um, N≤16

Pin Assignment

MS1

Pin	Name	Description	I/O	specification	Unit
1	NC	Not Connected			
2	VCC	Power Supply	IN	5~12	VDC
3	/STROBE	Strobe signal, Falling Edge Active	IN	TTL	
4	GND	Ground	IN		
5	D0	Data0 Input	IN	TTL	
6	D1	Data1 Input	IN	TTL	
7	D2	Data2 Input	IN	TTL	
8	NC	Not Connected			
9	TXD	RS232 transmit	OUT	TTL	
10	RXD	RS232 receive	IN	TTL	
11	GND	Ground	IN		
12	NC	Not Connected			
13	D3	Data3 Input	IN	TTL	
14	/RESET	Hardware Reset, Logic Low Active	IN	TTL	

MS2

Pin	Name	Description	I/O	specification	Unit
1	NC	Not Connected			
2	VCC	Power Supply	IN	5~12	VDC
3	NC	Not Connected			
4	GND	Ground	IN		
5	A0	I ² C Address A0	IN	TTL	
6	SDA	I ² C Data	IN/OUT	TTL	
7	SCL	I ² C Clock	IN	TTL	
8	NC	Not Connected			
9	NC	Not Connected			
10	NC	Not Connected			
11	GND	Ground	IN		
12	NC	Not Connected			
13	A1	I ² C Address A1	IN	TTL	
14	/RESET	Hardware Reset, Logic Low Active	IN	TTL	

Ordering Information:

N	A	B	C	D	E	F	G
Output Number	Fiber Type	Package Type	Test Wavelength	Tube Type	Fiber Length (Include connector)	Connector	Interface
2:2 4:4 8:8 12:12 16:16 20:20 24:24	SM: SM, 9/125 M5: MM,5 0/125 M6: MM,6 2.5/125 X: Others	A: Type A B: Type B	850: 850nm 1300: 1300nm 8513: 850&1300 nm 1310: 1310nm 1550: 1550nm 1315: 1310&155 0nm 1625: 1625nm X: Others	25: 250um(Type A) 90: 900um(Type B) X: Others	05: 0.5m±5cm 10: 1.0m±5cm 15: 1.5m±5cm X: Others	OO: None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC STP: ST/PC LP: LC/PC LA: LC/APC X: Others	MS1 : TTL/RS232 MS2 : I ² C