

## Mini 1×8T Optical Switch

### Product Description

1x8 optical switch is an all solid-state device without any moving parts. 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 microsecond fiber optic switch is designed to meet the most demanding switching requirements of reliability, durability, response, and continuous high frequency switching.

### ◇ Performance

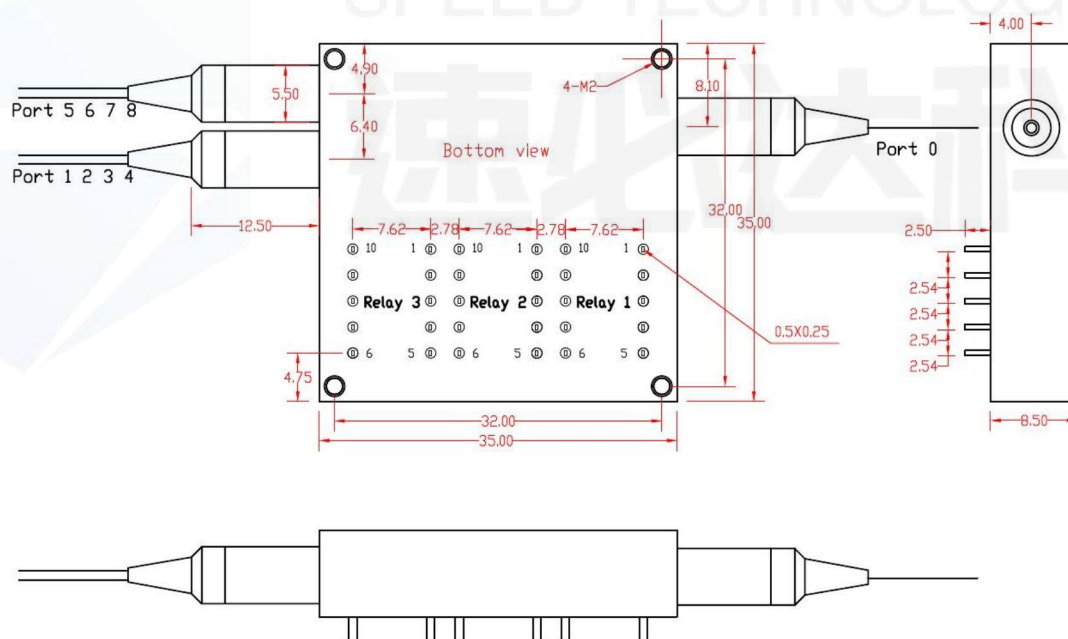
Parameter	Specification	
Operating Wavelength (nm)	850&1310±40	1260~1650
Insertion Loss (dB)	<1.0	<1.2
WDL (dB)	<0.25	<0.30
PDL (dB)	<0.1	
Channel Cross Talk (dB)	>40	>55
Repeatability (dB)	±0.02	
Return loss (dB)	>35	>55
Switching Speed (ms)	<8	
Drive Voltage (V)	5	
Power Handling (mW)	500	
Durability (Cycles)	10 Million	
Operating Temperature (°C)	0~70	
Storage Temperature (°C)	-40~85	
Fiber Type	N/125um	
Fiber Length (m)	Customer Specify	
Dimension (L×W×H) (mm)	35X35X8.5	

### Pins

Relay Status	Electric Drive (Pin #)				Sensor Status (Pin #)		
Latching	0	1	5	6	10	2-3,8-9	3-4,8-7
	1	-	-	GND	V+	Close	Open
Non- Latching	0	V+	GND	-	-	Open	Close
	1	-	-	-	GND	Close	Open

	Electric Drive		
	Relay1	Relay 2	Relay 3
Com = P1 (Black)	0	0	0
Com = P2(Red)	0	0	1
Com = P3 (Blue)	0	1	0
Com = P4 (White)	0	1	1
Com = P5(Black)	1	0	0
Com = P6(Red)	1	0	1
Com = P7(Blue)	1	1	0
Com = P8(White)	1	1	1

Dimensions(mm)



Ordering Information: OSW-1×8T-A-B-C-D-E-F-G

A	B	C	D	E	F	G
Mode	Wavelength	Voltage	Control Model	Fiber Diameter	Fiber Length	Connector
SM:9/125um	85: 850nm	3: 3V	L: Latching	25:250um	05:0.5m	OO:None
M5: 50/125um	13: 1310nm	5: 5V	N:Non-Latching	90:900um	10:1.0m	FP: FC/PC
M6: 62.5/125um	14: 1490nm				15:1.5m	FA: FC/APC
	15: 1550nm					SP: SC/PC
	162: 1625nm					SA: SC/APC
	165: 1650nm					LP: LC/PC
	13/15:1310/1550nm					LA: LC/APC