

1x1 1x2 Solid-State Fiberoptic Switch

Features

- Low Insertion Loss
- Wide Wavelength Range
- High Crosstalk
- High Reliability
- Epoxy-free on Optical Path
- Latching

Applications

- Optical blocking
- Configurable operation
- System Monitoring
- Configurable OADM



The 1x1 1x2 switch is all solid-state switching 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, fast response, and continuous high frequency switching operation.

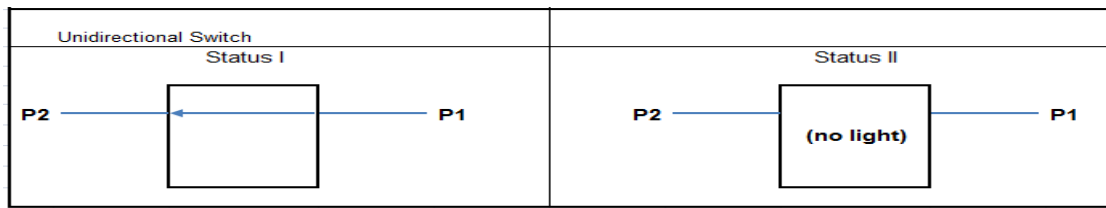
Specifications

Item	unit	1x1	1x2
Wavelength	nm	1525 ~ 1565	1310 ,1525 ~ 1565
Insertion Loss	dB	0.90(Typ.); 1.20(Max)	
PDL	dB	0.10(Typ.), 0.20(Max)	
Return Loss	dB	≥ 50	
Crosstalk	dB	≥ 40	
Extinction Ratio1	dB	≥ 18	
Repeatability	dB	+/- 0.02	
Durability	Cycles	> 10 Billions	
Switching Speed	μs	Regular (200); Ultra-fast (50)	<150
Switching Type	n/a	Latching	
Operating Temperature	°C	-5 ~ 70	
Storage Temperature	°C	-40 ~ 85	
Maximum Optical Power	mW	300	
Dimension	mm	52 × 8.4 × 8.4	28 × 8.4 × 8.4
Fiber Type	NA	SMF-28	

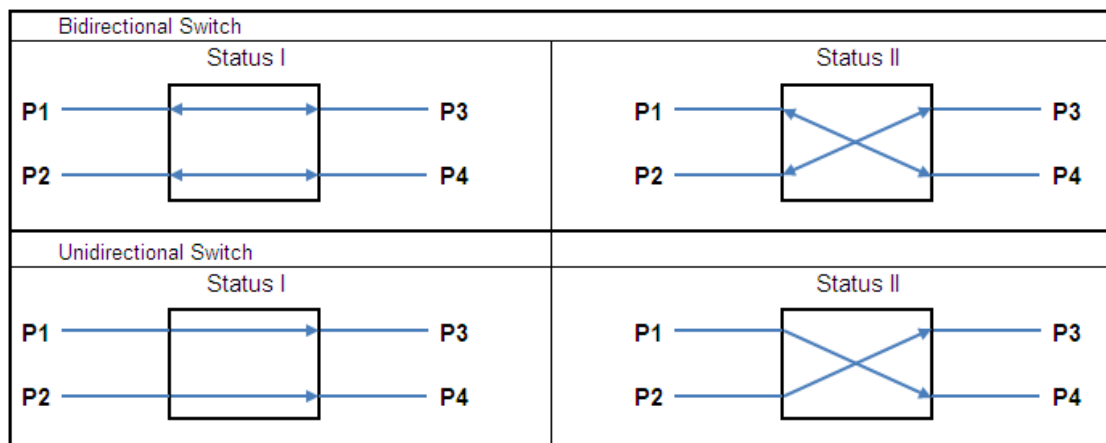
*.All the specifications are based on the devices without connectors, and guaranteed over the operating temperature ranges, wavelength ranges and all polarization states.

** Specifications are subject to change without notice.

Functional Diagram

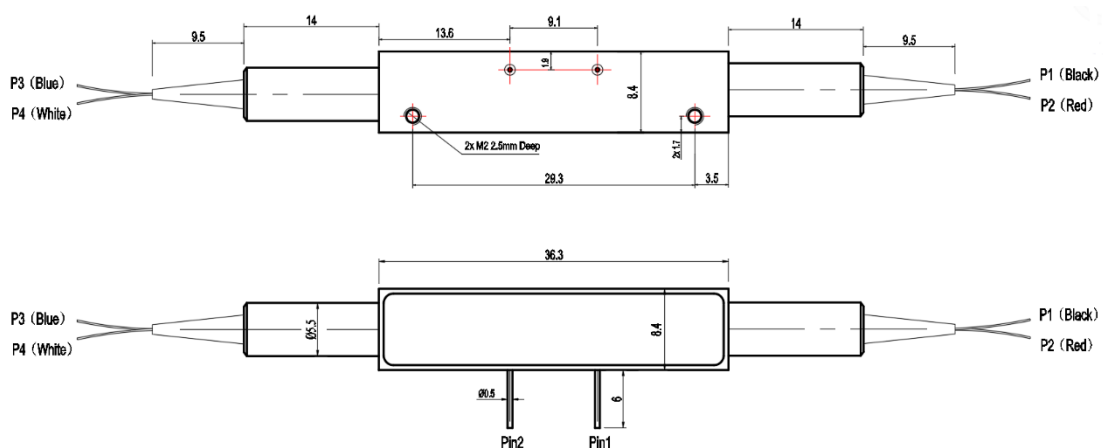


1x1



1x2

Mechanical Dimensions (mm)



■ **Electrical Driving Information**

Optical Patch	Pin1	Pin2
P1-P2	GND	5.0V Pulse
(no light)	5.0V Pulse	GND

1x1

Optical Patch	Pin1	Pin2
P1-P2	GND	3V Pulse
P1-P3	3V Pulse	GND

1x2

■ **Ordering Information: NSW-N1*2ABCDEF**

A	B	C	D	E	F	G
Type	Mode	Voltage	Wavelength	Fiber Diameter	Fiber Length	Connector
B: Bidirectional U: Unidirectional	SM:9/125um	2:2.5V 3:3V 5:5V	13: 1310nm 15: 1550nm	25:250um 90:900um	05:0.5m 10:1.0m 15:1.5m	OO:None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC LP: LC/PC LA: LC/APC