

1×2 Solid-State Fiber optic Switch

professional supplier of fiber optical component

The 1x1 and 1x2 solid-state fiber optical switch connects optical channels by redirecting an incoming optical signal into a selected output fiber. This is achieved using patented non-mechanical configurations and activated via an electrical control signal. Latching operation preserves the selected optical path after the drive signal has been removed. The all solid sate CL 1x1,1x2 fiber optic switch features low insertion loss, high extinction ratio, high channel isolation, and extremely high reliability and repeatability. It is designed to meet the most demanding switching requirements of continuous operation without failure, longevity, operation under shock/vibration environment and large temperature variations, and fast response time.

The switch also has build-in circulator and isolator functions. Electronic driver is available for this series of switches.

♦ Features

- Low Insertion Loss
- Wide Wavelength Range
- Low Crosstalk
- High Stability, High Reliability
- Epoxy-free on Optical Path
- Latching and Non-latching

Application

- Metropolitan Area Network
- R&D in Laboratory
- System Monitoring
- Configurable OADM

Performance

Parameters		SOSW-1×2		
Wavelength Range	nm	1295~1325,1520~1580		
Testing Wavelength	nm	1310/1550		
Insertion Loss	dB	Typ:0.7 ,Max:1.0		
Return Loss	dB	≥50		
Crosstalk	dB	≥45		
PDL	dB	≤0.10		
Polarization Mode Dispersion	ps	≤0.20		
TDL	dB	≤0.25		
Optical Power Handling	mw	300		
Switch Speed (rise, fall)	us	50~200		
Repetition Rate	Hz	2K		
Operation Temperature	${\mathbb C}$	-40 ~ +85		
Storage Temperature	${\mathbb C}$	-40 ~ +85		
Dimension	mm	(L)58.2×(W)8.4×(H)8.4(±0.2)		

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♦ Electrical Driving Information

The switch is actuated by applying a voltage pulse. Applying one polarity pulse, one light path will be connected and latched to the position. Applying a reversed polarity pulse, another light path will be connected and latched to the position after pulse removed.

Parameter	Minimum	Typical	Maximum	Unit
Drive Voltage*	4.5	5	5.5*	V
Drive Current	110	140	195	mA
Pulse Duration	0.2	0.3	0.5	ms

Driving kit with USB and TTL interfaces and Windows TM GUI is available. We also offer RS232 interface as an option – please contact coreray sales.

2x1 Switch

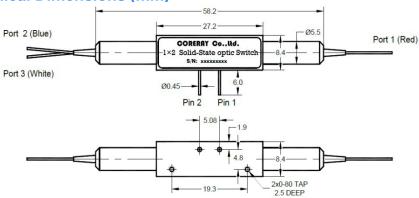
Optical Path	Pin 1	Pin 2
Port 2→Port 1	5V Pulse	GND
Port 3—Port 1	GND	5\/ Pulso

1x2 Switch

Optical Path	Pin 1	Pin 2
Port 1→Port 2	GND	5V Pulse
Port 1→Port 3	5V Pulse	GND

- * The typical drive voltage of single stage is 2.5V.
- * Over this value will damage the device.

♦ Mechanical Dimensions (mm)



♦ Ordering Information:SOSW-A-B-C-D-E-F-G

Α	В	С	D	E	F	G
Туре	Mode	Wavelength	Switch	Fiber Diameter	Fiber Length	Connector
1X1	SM:9/125um	13: 1310nm	2:Dual Stage	25:250um	05:0.5m	OO:None
1X2		15: 1550nm	0 :Special	90:900um	10:1.0m	FP: FC/PC
2X1					15:1.5m	FA: FC/APC
						SP: SC/PC
						SA: SC/APC
						LP: LC/PC
						LA: LC/APC

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