

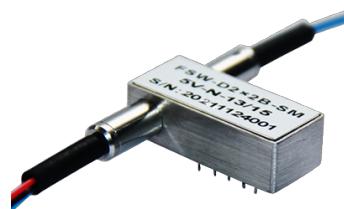
Description

XIONGHUA PHOTONICS Dual 2x2B Single-mode or Multi-Mode Mechanichal Optical Switch connects optical channels by redirecting an incoming optical signal into a selected output fiber. This is achieved using a patent pending opto-mechanical proprietary configuration and activated via an electrical control signal.

XIONGHUA PHOTONICS Dual 2x2B (D2x2B) SM or MM Mechanichal Optical Switch support all wavelength at Singlemode 1310/1550nm and Multimode 850nm wavelength, it offers ultra-high reliability, low insertion loss, fast switching speed as well as bi-directional performance. The optical switches are widely used for Optical Network, Protection, Transmitter and Receiver Protection,Network Test System and Instrumentations.

Features

- Low insertion loss, wide wavelength range
- Low channel crosstalk, high stability, high reliability
- Simple control, small size, easy to embed in the circuit board
- Locking and non-locking control types can be selected

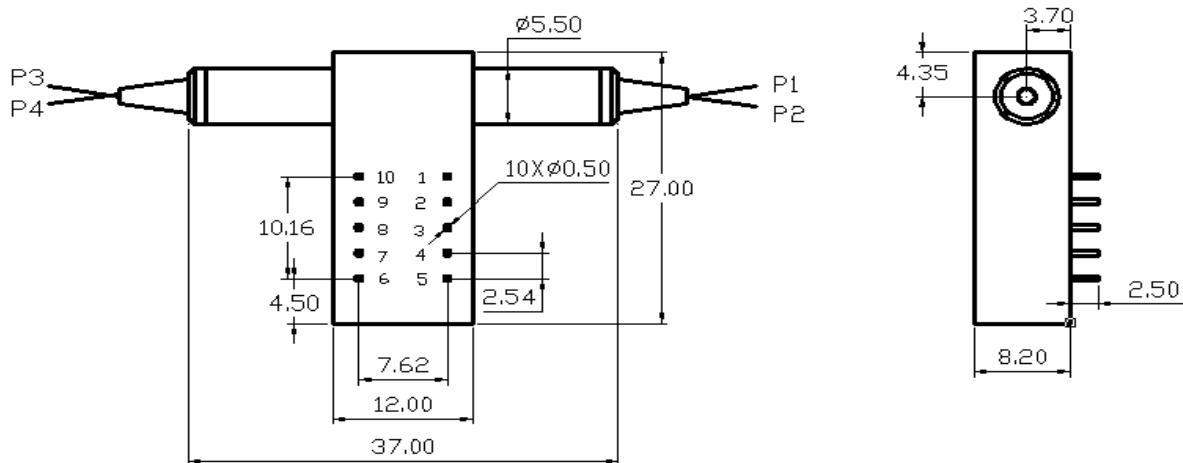


Performance

Parameter	Parameter value
Model	XH-OSW-2X2B
Insertion loss (dB)	Typical value : 0.5 Max : 1.0
Wavelength range (nm)	800~1310&1260~1650
Working wavelength (nm)	850/980/1310&1310/1550/1625
Return Loss (dB)	MM≥30 SM≥50
Channel Crosstalk (dB)	MM≥ 35 SM≥55
PDL (dB)	≤0.05
WDL (dB)	≤0.25
TDL (dB)	≤0.25
Repeatability (dB)	≤±0.02
Switching Times (Times)	≥10 ⁷
Switching Time (ms)	≤8
Transmission Power (mW)	≤500
Operating Voltage (V)	3 or 5
Operating Temperature ()	-20~+70
Storage Temperature ()	-40~+85
Weight (g)	16
Fiber color	P1、P1' : Black P2、P2' : Red P3、P3' : Blue P4、P4' : White
Package Size (mm)	(L)27.0×(W)12×(H)8.2±0.2

Tip: The above are commonly used optical switch parameters, if you have other requirements, please consult and customize.

Dimensions

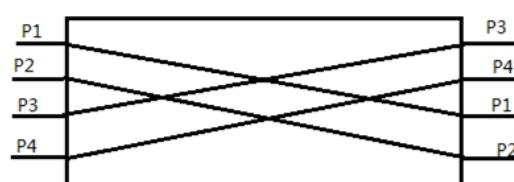
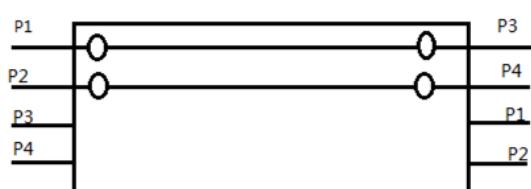


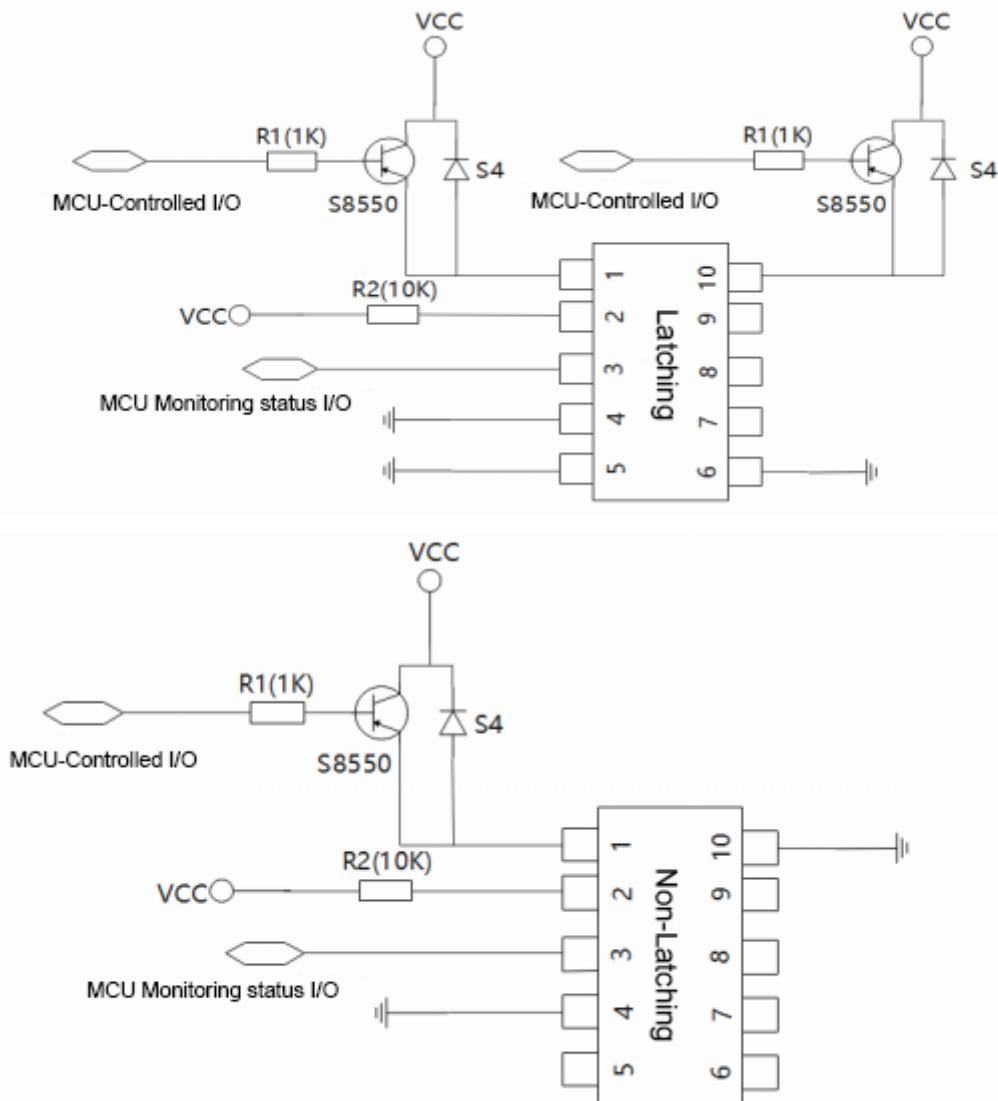
Pins

Type	State	Pin definition	Electric drive				Condition monitoring			
			1	5	6	10	2-3	3-4	7-8	8-9
Non-Latching	A	P1-P3 P2-P4	--	--	--	--	CLOSE	OPEN	OPEN	CLOSE
	B	P1-P1、P2-P2 P3-P3、P4-P4	V+	--	--	GND	OPEN	CLOSE	CLOSE	OPEN
Locking	A	P1-P3 P2-P4	--	--	GND	V+	CLOSE	OPEN	OPEN	CLOSE
	B	P1-P1、P2-P2 P3-P3、P4-P4	V+	GND	--	--	OPEN	CLOSE	CLOSE	OPEN

Description: The locking type optical switch only needs to be powered on to control the switching after power off, and the optical path will keep the state after switching after power off; the non-locking type optical switch needs to be kept powered on or off to realize the optical path switching, and the optical path will return to the state before the initial value is powered after power off.

Optical Route



Control circuit design reference

Ordering Information : XH-OSW-2X2B-A-B-C-D-E-F-G

Wavelength(A)	Fiber Type(B)	Power Supply(C)	Control Model(D)	Fiber Diameter (E)	Fiber Length(F)	Connector(G)
850:850nm	SM:SM,9/125	3:3V	L:locking	25::250um	05:0.5m	NO:无
1310:1310nm	M5:MM,50/125	5:5V	N:Non-locking	90:900um	10:1.0m	FP: FC/PC
1550:1550nm	M6:MM,62.5/125				15:1.5m	FA: FC/APC
1310/1550:1310nm/1550nm	25				X:other	SP: SC/PC
X:other						SA: SC/APC
						LP: LC/PC
						LA: LC/APC
						X:other