

4x4T Optical Switch

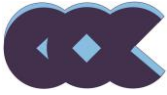
Product Description:

4X4 fiber optic switch connects optical channels by directing or blocking an incoming optical signal into the output fiber. This is achieved using a patent pending opto-mechanical configuration and activated via an electrical control signal. Latching version preserves the selected optical path after the drive signal has been removed, while the non-latching versions default to either the open or closed state when power is removed. The switch has integrated electrical position sensors. The new material based advanced design significantly reduces moving part position sensitivity, offering unprecedented high stability as well as unmatched low cost.

Applications :	Features :
Channel Blocking	Unmatched Low Cost
Configurable Add/Drop	Low Optical Distortions
System Monitoring	High Isolation
Instrumentation	High Reliability
	Epoxy-Free Optical Path

Specifications:

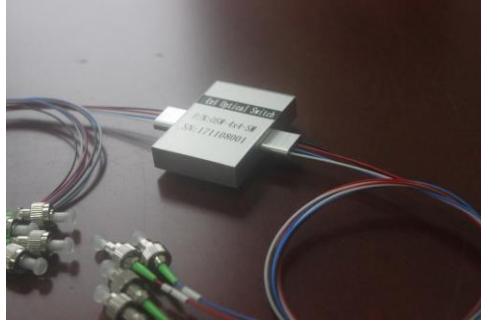
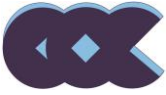
Parameters		Unit
Operating Wavelength	1260~1620(SM)、850(MM)	nm
Insertion Loss	Typ.=0.8 , Max.=1.2	dB
Wavelength Dependent Loss	≤0.40	dB
PER (PM fiber)	>16	dB
Polarization Dependent Loss	≤0.10	dB
Temperature Dependent Loss	≤0.30	dB
Return Loss	SM≥50 MM≥30	dB
Cross Talk	SM≥55 MM≥35	dB
Switch Time	≤15	ms
Repeatability	≤±0.05	dB
Durability	≥10 ⁷	times
Operating Voltage	3 or 5	V
Switch Type	Non-Latching or Latching	
Operating Temperature	-20~+70	°C
Storage Temperature	-40~+85	°C
Optical Power	≤500	mw
Dimension(LxWxH)	53x37.5x10	mm



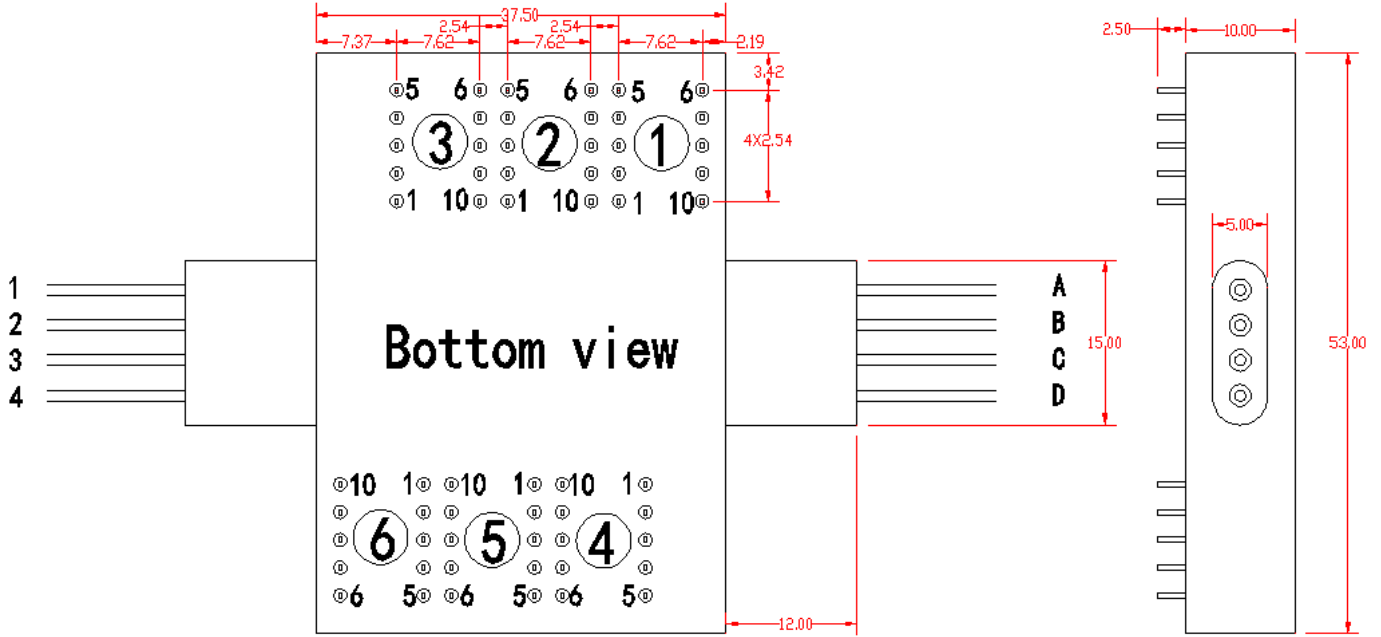
Pin Configurations:

Type	State	Electric Drive				Status Sensor			
4X4T		Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
Latching	0	--	--	GND	V+	Close	Open	Open	Close
	1	V+	GND	--	--	Open	Close	Close	Open
Non-latching	0	--	--	--	--	Close	Open	Open	Close
	1	V+	--	--	GND	Open	Close	Close	Open

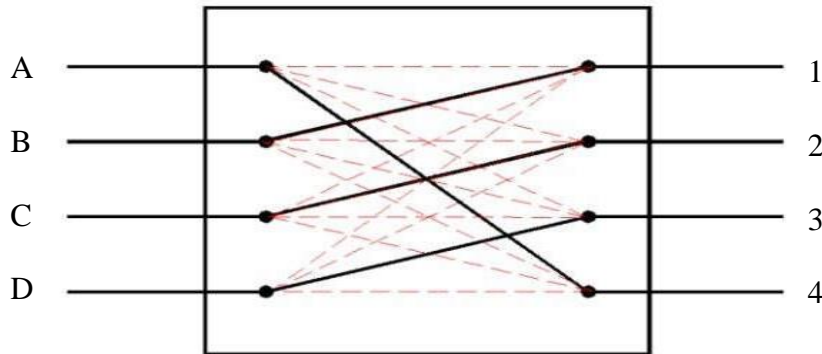
NO.	Optical Route	Relay					
		1	2	3	4	5	6
1	A-1、B-2、C-3、D-4	1	1	1	1	1	1
2	A-1、B-2、C-4、D-3	1	1	1	1	1	0
3	A-1、B-3、C-2、D-4	1	1	1	1	0	1
4	A-1、B-3、C-4、D-2	1	1	1	0	0	1
5	A-1、B-4、C-2、D-3	1	1	1	1	0	0
6	A-1、B-4、C-3、D-2	1	1	1	0	0	0
7	A-2、B-1、C-3、D-4	1	1	0	1	1	1
8	A-2、B-1、C-4、D-3	1	1	0	1	1	0
9	A-2、B-3、C-1、D-4	1	1	0	1	0	1
10	A-2、B-3、C-4、D-1	1	1	0	0	0	1
11	A-2、B-4、C-1、D-3	1	1	0	1	0	0
12	A-2、B-4、C-3、D-1	1	1	0	0	0	0
13	A-3、B-1、C-2、D-4	1	0	1	1	0	1
14	A-3、B-1、C-4、D-2	1	0	1	0	0	1
15	A-3、B-2、C-1、D-4	1	0	0	1	0	1
16	A-3、B-2、C-4、D-1	1	0	0	0	0	1
17	A-3、B-4、C-1、D-2	0	0	1	0	0	1
18	A-3、B-4、C-2、D-1	0	0	0	0	0	1
19	A-4、B-1、C-2、D-3	1	0	1	1	0	0
20	A-4、B-1、C-3、D-2	1	0	1	0	0	0
21	A-4、B-2、C-1、D-3	1	0	0	1	0	0
22	A-4、B-2、C-3、D-1	1	0	0	0	0	0
23	A-4、B-3、C-1、D-2	0	0	1	0	0	0
24	A-4、B-3、C-2、D-1	0	0	0	0	0	0



Mechanical Dimensions (Unit:mm)

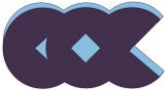


Optical Route:



Ordering Information:OSW-4X4T-B-C-D-E-F-G-H

A	B	C	D	E	F	G	H
Type	Wavelength	Voltage	Switch Type	Fiber Type	Package	Fiber Length	Connector



Guangxi CORERAY Optical Communication Co.,Ltd.

2X4T	85=850	3=3V	L=Latching	SM=SM2	25=Bare fibe	05=0.5m	None=00
3X4T	13=1310	5=5V	N=Non-latching	8	90=900um	10=1.0m	FP=FC/PC
4X4T	15=1550			M5=50/125	tube		FA=FC/APC
	13/15=1310&1550			M6=62.5/125			SP=SC/PC
				5			SA=SC/APC
				P4=PM460			ST=ST/PC
				P6=PM630			LC=LC/PC
				P7=PM780			LA=LC/APC
				P8=PM850			
				P13=PM130			
				0			
				P15=PM155			
				0			