

2x2 Optical Switch

Features

- Compact Size
- High crosstalk
- Low Insertion Loss

Applications

- Optical Cross and Connection System
- Network Monitor
- Optical Fiber Ring Protection

Specifications

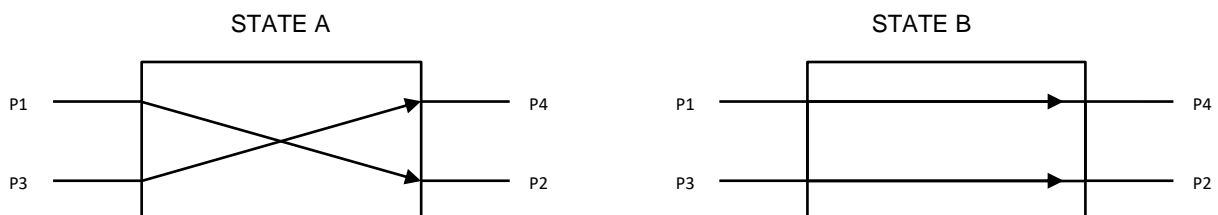
Parameters	Unit	2X2B	
Operation Wavelength	nm	850±40/1300±40	1260~1650
Test Wavelength	nm	850/1300	1310/1550
Insertion Loss*	dB	≤1.2 (Typ 1.0)	≤1.0 (Typ 0.8)
Return Loss*	dB	≥30	≥50
Cross Talk*	dB	≥35	≥55
Polarization Dependent Loss	dB	≤0.15	
Switch Time	ms	≤8	
Repeatability	dB	≤±0.05	
Lifetime	cycles	10 Million	
Fiber Type		MMF 50/125, MMF 62.5/125	SMF-28e
Relative Humidity	%	5~95	
Operating Temperature	°C	-20 ~ +85	
Storage Temperature	°C	-40 ~ +85	

* Within operating temperature and SOP, and excluding connectors.

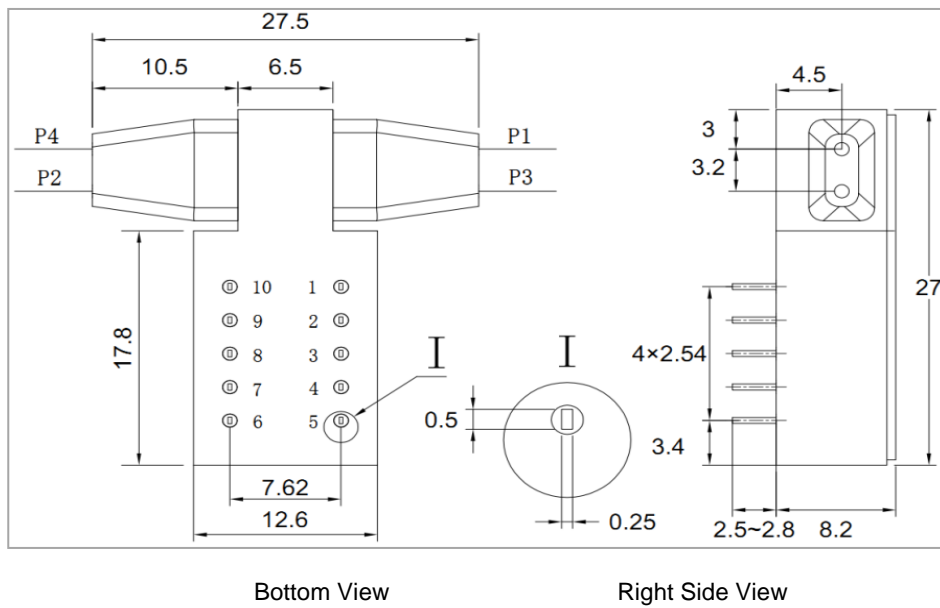
Pin Configurations

Type	State	Optical Route	Electric Drive				Status Sensor			
			Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
2x2F			Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
Latching	A	P1-P2 P3-P4	--	--	GND	V+	Close	Open	Open	Close
	B	P1-P4 P3-P2	V+	GND	--	--	Open	Close	Close	Open
Non-latching	A	P1-P2 P3-P4	--	--	--	--	Close	Open	Open	Close
	B	P1-P4 P3-P2	V+	--	--	GND	Open	Close	Close	Open

Optical Route



Package Dimension



Electrical Specifications

Specifications		Voltage	Current	Resistance
5V	Latching	4.5~5.5 V	36~44 mA	125 Ω
5V	Non-latching	4.5~5.5 V	26~32 mA	175 Ω
3V	Latching	2.7~3.3 V	54~66 mA	50 Ω
3V	Non-latching	2.7~3.3 V	39~47 mA	70 Ω

Ordering Information

OSW- ①①①-②②②-③③③-④-⑤⑤⑤-⑥-⑦-⑧⑧

①	Port Type	2x2;
②	Wavelength	850; 1310; 1550; 1310/1550;
③	Voltage Type	3V; 5V;
④	Mode	L=Latching; N=Non-Latching;
⑤	Pigtail Type	250=250um Fiber; 900=900um Loose Tube;
⑥	Fiber Type	1=SMF-28; 2=MMF 50/125; 3=MMF 62.5/125;
⑦	Fiber Length	1= 1m;
⑧	Connector	NE=None; FA=FC/APC; FC=FC/UPC; SA=SC/APC; SC=SC/UPC; LC=LC/UPC; XX=Others;