

## Quad 1x1 Optical Switch

### Description:

It's a passive component used for OADM system, OXC, monitor system and experience.

### Features:

- Wide band operation
- Low insertion loss
- Low PDL
- High cross talk
- High stability and reliability
- Path without epoxy

### Application:

- OADM
- WAN
- Laboratory
- Monitory & detection

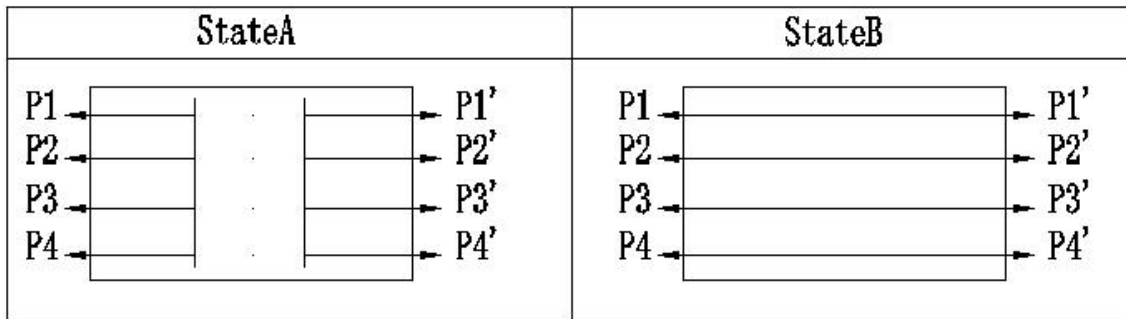
### Performance:

Model		Quad 1x1	
Operating wavelength	nm	850±40/1300±40	1260~1620
wavelength	nm	850&1300	1310&1550
Insertion loss	dB	Typ:0.7 Max:1.0	
Return loss	dB	MM≥30	SM≥50
Cross talk	dB	MM≥35	SM≥55
PDL	dB	≤0.05	
WDL	dB	≤0.25	
TDL	dB	≤0.25	
Repeatability	dB	≤±0.02	
Voltage	v	3.0 or 5.0	
Operating life	Time	≥10 <sup>7</sup>	
Switch time	ms	≤8	
Power handling	mW	≤500	
Operating temperature	℃	-20~+70	
Storage temperature	℃	-40~+85	
Fiber color		P1、P1': Black	P2、P2': Red
		P3、P3': Blue	P4、P4': White
Size	mm	27.0×12×8.2±0.2	
Note: 1 Within operating temperature and SOP. 2 Excluding Connectors.			

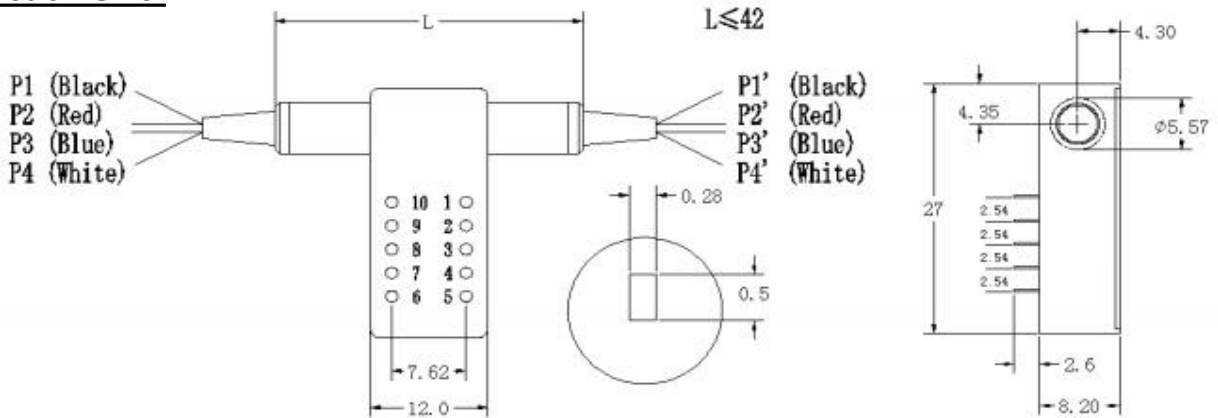
**Pin Definition:**

Type	State	Pin definition	Power				Condition monitoring			
			1	5	6	10	2-3	3-4	7-8	8-9
Quad 1x1										
Non-latching	A	X	--	--	--	--	Close	Open	Open	Close
		X								
	B	P1-P1', P2-P2'	V+	--	--	GND	Open	Close	Close	Open
		P3-P3', P4-P4'								
Latching	A	X	--	--	GND	V+	Close	Open	Open	Close
		X								
	B	P1-P1', P2-P2'	V+	GND	--	--	Open	Close	Close	Open
		P3-P3', P4-P4'								

**Path Diagram:**



**Production Size:**



**Order Information:**

Mode	Wavelength	Voltage Type	Control Model	Fiber Type	Fiber Diameter	Fiber Length	Connector
S=SM	85=850nm	3=3V	L=Latching	5=50/125	25=250um	1=1m	0=None
M=MM	13/15=1310/1550 nm	5=5V	N=Non-Latching	6=62.5/125	90=900um	2=1.5m	1=FC/PC
	X=Others			9=9/125	20=2.0mm	X=Others	2=FC/APC
				X=Others	30=3.0mm		3=SC/PC
					X=Others		4=SC/APC
							5=ST/PC
							6=ST/APC
							7=LC/PC
							8=LC/APC
							X=Others