Dual 1x2 Single Mode Mechanical Fiber Optic Switch

Features:

- Unmatched Low Cost
- Low Insertion Loss
- High Channel Isolation
- Highly Stability and Reliability
- Epoxy-Free Optical Path
- Latching or Non-Latching

Applications:

- Optical Signal Routing
- Optical Network Protection/Restoration
- Transmitter and Receiver Protection
- Network Test System
- Instrumentation
- Configurable Optical ADD/DROP

D1×2 Optical Switch, which is famous for its great performance, low insertion loss and compact dimension：27.0×(W)12.6×(H)8.0. It is an ideal Component for OADM,OXC,system monitor and protection. With compact package, it could be easy to integrate into a high density optical communication system.

Performance Specifications

Model number	Unit	D1×2
Wavelength range	nm	1260 1620
Testing wavelength	nm	1310/1490/1550/1625
Insertion loss	dB	Typ:0.5 Max:0.8
Return loss	dB	≥50
Cross talk	dB	≥55
Polarization dependant loss	dB	≤0.05
Wavelength dependant loss	dB	≤0.25
Temperature dependant loss	dB	≤0.25
Repeatability	dB	≤±0.02
Operating voltage	v	3.0 or 5.0
Lifetime	次	$\geqslant 10^7$
Switching time	ms	≤3
Transmission time	mw	≤500

Operating Temperature	℃	-20～+70
Storage temperature	℃	-40～+85
Weight	g	16
Dimension	mm	(L)27.2×(W)12.8×(H)7.5(公差±0.1～0.2mm)

Electronic pins structure:

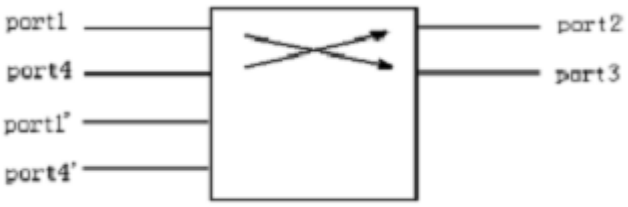
Non-latching

Optical path	Condition					
	PIN1	PIN10	PIN3-2	PIN3-4	PIN8-9	PIN8-7
1-1’;4-4’	N/A	N/A	CLOSE	OPEN	CLOSE	OPEN
1-2 ;4-3	GND	+5v	OPEN	CLOSE	OPEN	CLOSE

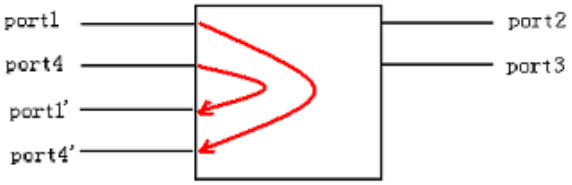
Latching

Optical path	Circuit driver				Condition			
	PIN1	PIN5	PIN10	PIN6	PIN3-2	PIN3-4	PIN8-9	PIN8-7
1-2 ;4-3	N/A	N/A	+5v	GND	OPEN	CLOSE	OPEN	CLOSE
1-1’;4-4’	+5v	GND	N/A	N/A	CLOSE	OPEN	CLOSE	OPEN

Optical path:

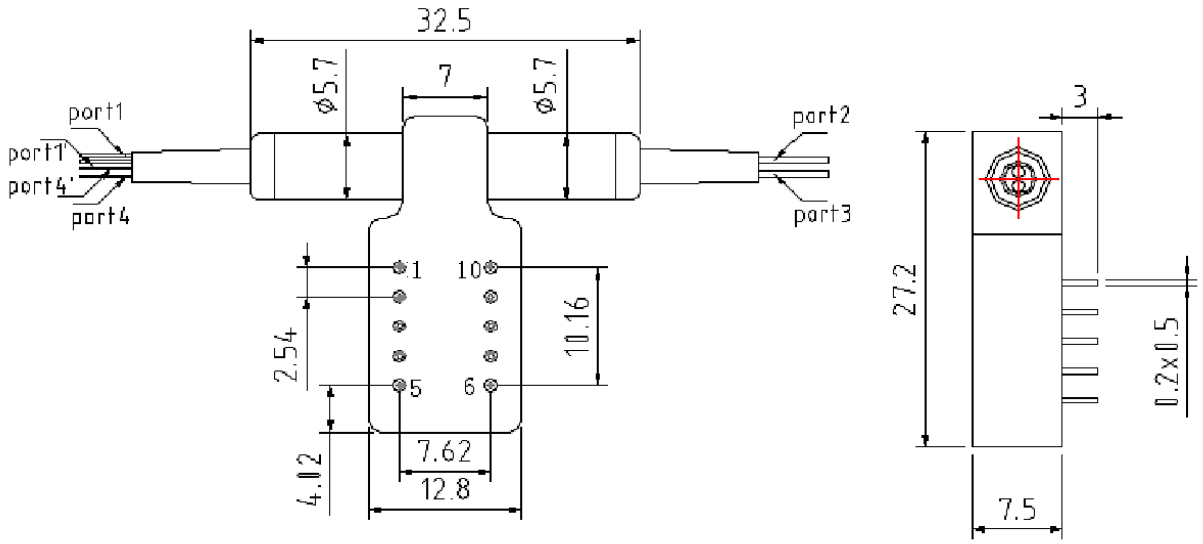


State A



State B

Dimension:



Ordering Information

Type	State	Operating wavelength	Port	Grade	Fiber type	Fiber length	In/Out connector
SMS	1=non-latching 2=latching	15=1550±40nm 13=1310±40nm 35=1310/1550nm	0202=2x2 0204=2x4 0100=others	1=P grade 2=A grade	1=Bare Fiber 2=900um Jacket	1=1 Meter 2=2 Meter	1=None 2=FC/APC 3=FC/PC 4=SC/APC 5=SC/PC 6=ST 7=LC