



1、Description

(Mechanical Optical Switch) 2x2 Mechanical Fiber Optic Switch connects optical channels by redirecting 2 incoming optical signals into 2 output fibers. It is achieved by shift the fiber or optical component. This design can significantly offer high stability as well as an unmatched low cost.

2、Features

- Low Insertion Loss
- Monolithic Package
- Cost-Effective
- Epoxy-free on Optical Path
- Latching or Non-Latching
- Telcordia GR-1221 Qualified

3、Specification

3.1 Functional Parameter

Parameter		Multimode	Singlemode
Operating Wavelength	nm	850/1300	1280 ~ 1340 / 1520 ~ 1625
Insertion Loss	dB	Typ:0.8 Max:1.2	Typ:0.6 Max:0.8
Return Loss	dB	MM≥30 SM≥50	
Crosstalk	dB	MM≥35 SM≥55	
PDL	dB	≤0.05	
WDL	dB	≤0.25	
TDL	dB	≤0.25	
Repeatability	dB	≤±0.02	
Power Supply	V	3~5.5	

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2x2 Optical Switch (mechanical)

Lifetime	Times	$\geq 10^7$
Switch Time	ms	≤ 8
Transmission Power	mW	≤ 500
Operating Temperature	°C	-20~+70
Storage Temperature	°C	-40~+85
Dimension	mm	(L)28.0×(W)12.6×(H)8.0(±0.2)

3.2 Electronic pins structure

Non-latching

optical path	condition					
	PIN1	PIN10	PIN3-2	PIN3-4	PIN8-9	PIN8-7
1-3	GND	+5v	OPEN	CLOSE	OPEN	CLOSE
1-2	N/A	N/A	CLOSE	OPEN	CLOSE	OPEN

Latching

optical path	circuit driver				condition			
	PIN1	PIN5	PIN10	PIN6	PIN3-2	PIN3-4	PIN8-9	PIN8-7
1-3	N/A	N/A	+5v	GND	OPEN	CLOSE	OPEN	CLOSE
1-2	+5v	GND	N/A	N/A	CLOSE	OPEN	CLOSE	OPEN

4、Application

- Route Fiber Test System
- Re-Configurable OADM
- Network Restoration
- Network Protection
- Network Monitoring

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