



1、Description

(Mechanical Optical Switch) 1x2 Mechanical Fiber Optic Switch connects optical channels by redirecting 1 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	Min.	Typical	Max.
Central Wavelength (nm)	1310, 1550, 1310 and 1550		
Bandwidth (nm)	100nm		
Insertion Loss (dB)			0.8
Switch time (ms)			10
Shift Speed (Hz)			10
Crosstalk (dB)	60		
Voltage(V)	3~5.5		
Repeatability (dB)			±0.02
Durability	10 million		

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1x2 Optical Switch (mechanical)

Return Loss(dB)	50		
Polarization Dependent Loss (dB)			0.10
Transmission Power (mW)			300
Operating Temperature(°C)	-5~70		
Storage Temperature (°C)	-40~85		
Fiber Type	Corning SMF 28e+ or equal (Customized)		
Fiber Length (m)	≥1.0 (Customized)		
Dimension(mm)	28x13x8		

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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