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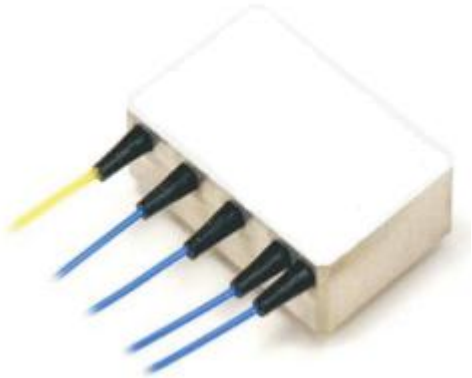
Mini 1×4 Mechanical optical fiber Switch

Description:

The Series mini 1×4 optical fiber switch connects optical channels by redirecting an incoming optical signal into a selected output fiber. This is achieved by using a patent pending optical mechanical switch configuration activated via an electrical control signal.Latching operation preserves the selected optical path after the drive signal has been removed. The switch has integrated electrical position sensors, and the new material based advanced design significantly. reduces moving part position sensitivity, offering unprecedented high stability as well as an unmatched low cost. Electrical driver is available for this series of switches.



Features

1.Unmatched Low Cost

2.Low Optical Distortions

3.High Isolation

4.High Reliability

5.Epoxy-Free Optical Path

Applications

1.Channel Blocking

2.Configurable Add/Drop

3.System Monitoring

4.Instrumentation

Performance:

Parameter	Units	SPEC.
Operating wavelength	nm	1260～1620
wavelength	nm	1310&1550
Insertion loss	dB	Typ:0.8 Max:1.0
Return loss	dB	Sm≥50
Cross talk	dB	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 （+/-0.5）
Operating life	Time	≥107

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Switch time	ms	≤8
Powerhandling	mW	≤500
Operating temperature	℃	-20～+70
Storage temperature	℃	-40～+85
Size	mm	35x23x10

Notes:The insertion loss above excluding the insertion loss for the connectors

Electrical Connector Configurations:

Latching Type

Optical Path	Relay	Electrical Drive		Status Sensor			
		Pin1	Pin8	Pin2-3	Pin3-4	Pin5-6	Pin6-7
Input >Port1	Relay1	5v Pulse	GND	Open	Close	Close	Open
	Relay2,3	N/A	N/A				
Input >Port2	Relay1	GND	5v Pulse	Close	Open	Open	Close
	Relay2	5v Pulse	GND	Open	Close	Close	Open
	Relay3	N/A	N/A				
Input >Port3	Relay1,2	GND	5v Pulse	Close	Open	Open	Close
	Relay3	5v Pulse	GND	Open	Close	Close	Open
Input> Port4	Relay1,2,3	GND	5v Pulse	Close	Open	Open	Close

Non-Latching Type

Optical Path	Relay	Electrical Drive		Status Sensor			
		Pin1	Pin8	Pin2-3	Pin3-4	Pin5-6	Pin6-7
Input →Port1	Relay1	5v	GND	Close	Open	Open	Close
	Relay2,3	No Power		Open	Close	Close	Open
Input→ Port2	Relay2	5v	GND	Close	Open	Open	Close
	Relay1,3	No Power		Open	Close	Close	Open
Input →Port3	Relay3	5v	GND	Close	Open	Open	Close
	Relay1,2	No Power		Open	Close	Close	Open
Input →Port4	Relay1,2,3	No Power		Open	Close	Close	Open