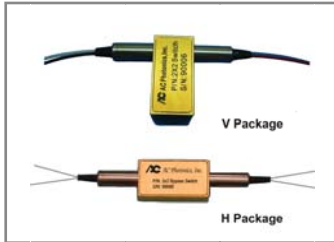


2x2 Singlemode Bypass Mechanical Fiberoptic Switch



ACP's MS Series switch connects optical channels by redirecting an incoming optical signal into a selected output fiber. This is achieved using a patent pending opto-mechanical proprietary configuration and activated via an electrical control signal. The Switch offers ultra-high reliability and fast switching speed as well as bi-directional performance. The MS fiberoptic switches are true switching solution for optical networking applications.

Key Features

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

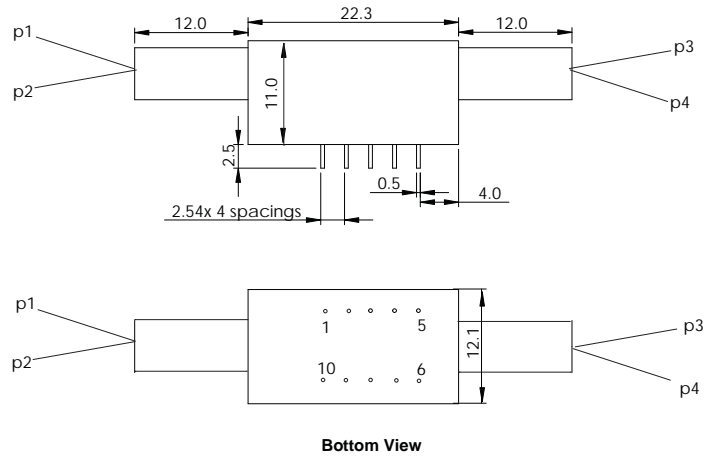
Applications

- Optical Network Protection/Restoration
- Optical Signal Routing
- Configurable Optical Add/Drop
- Transmitter and Receiver Protection
- Network Test Systems
- Instrumentation

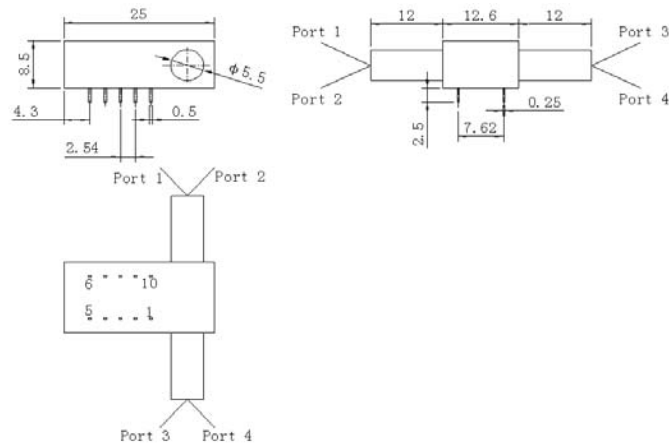
Performance Specifications

Parameter	Specifications			
Channel Wavelength	1260nm to 1360nm or 1510nm to 1610nm		1310nm / 1550nm ± 40nm	
Insertion Loss	P Grade	A Grade	P Grade	A Grade
	≤ 0.6dB	≤ 0.9dB	≤ 0.8dB	≤ 1.0dB
Wavelength Dependent Loss	≤ 0.25dB		≤ 0.30dB	
Polarization Dependent Loss	≤ 0.05dB			
Channel Cross Talk	≥ 55dB			
Return Loss	≥ 55dB			
Repeatability	± 0.02dB			
Switching Speed (Typ.)	4ms			
Operating Voltage	5V			
Durability (Cycles)	10 Million			
Optical Power	500mW			
Operating Temperature	0 to +70°C			
Storage Temperature	-40 to +85°C			
Package Dimensions	H Package: L22.3mm x W12.1mm x H11.0mm			
	V package: L25mm x W12.6mm x H8.5mm			

Mechanical Dimensions (H Package)

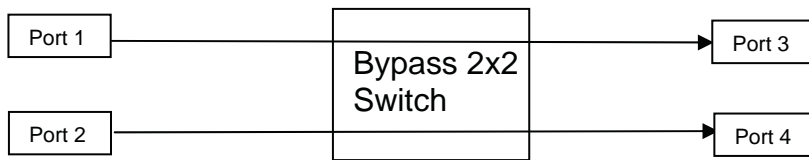


Mechanical Dimensions (V Package)

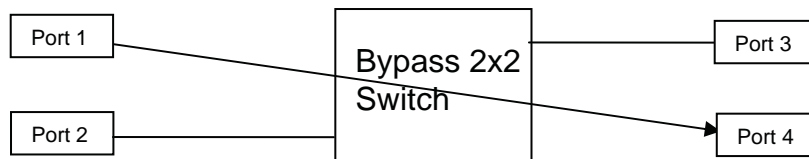


Bypass 2x2 switch ports configurations

Normal Mode



Bypass Mode



Electrical Pin Configuration (Type A)

Optical Path		Port1- Port4 (Bypass)		Port1- Port3 and Por2 - Port4 (Normal)	
Electric Drive	Non-Latching	Pin1	Pin10		
	Latching	Pin1	Pin5	Pin6	Pin10
		V+	GND	GND	V+
Sensor Status	Non-Latching and Latching	Pin2-3, Pin8-9 Open		Pin2-3, Pin8-9 Close	
		Pin3-4, Pin7-8 Close		Pin3-4, Pin7-8 Open	

Electrical Pin Configuration (Type B)

Optical Path		Port1- Port3 and Por2 - Port4		Port1- Port4	
Electric Drive	Non-Latching	Pin6	Pin5		
	Latching	Pin6	Pin10	Pin1	Pin5
		V+	GND	GND	V+
Sensor Status	Non-Latching and Latching	Pin3-4, Pin7-8 Open		Pin3-4, Pin7-8 Close	
		Pin8-9, Pin2-3 Close		Pin8-9, Pin2-3 Open	

Electrical Configuration

Paramete	Typ.	Min.	Max.	Unit
Switch Voltage	5	4.5	5.5	V
Switch Current	>40			mA
Pulse Duration	>20			ms

Ordering Information

MS	<input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/> <input type="text"/>	<input type="text"/>
Option	Operating Wavelength	Port	Grade	Pigtail Style	Fiber Length	In/Out Connector		
L = Latching N = Non-Latching	15 = 1510 to 1610nm 13 = 1260 to 1360nm 35 = 1310 /1550nm	BP2A = Bypass 2x2 Type A BP2B = Bypass 2x2 Type B	P = P Grade A = A Grade	1 = Bare Fiber 2 = 900um Jacket	1 = 1.0m 2 = 2.0m	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC	H = H Package V = V Package	