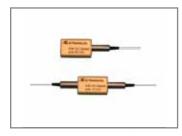


phone: 408.986.9838 email: sales@acphotonics.com website: www.acphotonics.com

1x1 Mechanical Fiberoptic Switch(Latching or Non-Latching)



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

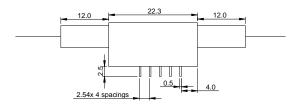
Applications

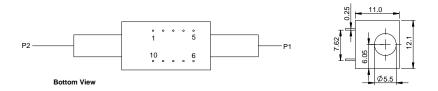
- Optical Netrwork Protection/Restoration
- Optical Signal Routing
- Configurable Optical Add/Drop
- Transmitter and Receiver Protection
- Network Test Systems
- Instrumentation

Performance Specifications

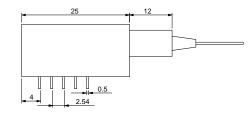
Parameter		Specifications				
Channel Wavelength	1260nm to1360nm o	r 1510nm to 1610nm	1310nm / 1550nm ± 40nm			
Insertion Loss	P Grade	A Grade	P Grade	A Grade		
	<u>≤</u> 0.5dB	<u>≤</u> 0.6dB	<u>≤</u> 0.6dB	<u><</u> 0.7dB		
Wavelength Dependent Loss	≤ 0.2	25dB	≤ 0.30dB			
Polarization Dependent Loss		≤ 0.05dB				
Channel Cross Talk		≥ 55dB				
Return Loss		≥ 55dB				
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				
Fiber Type		SMF-28				
Fiber Length		1.0m +/- 0.1m				
Paakaga Dimangiang	Single Port: L25mm x W11mm x H8.0mm					
Package Dimensions	Dual Port: L22.3mm x W12.1mm x H11.0mm					

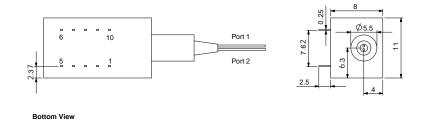
Mechanical Dimensions (Dual Port)





Mechanical Dimensions (Single Port)





Electrical Pin Configuration

Optical Path		OFF		ON		
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, Pir	17-8 Close	Pin3-4, Pin7-8 Open		

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

Ordering Information

MS								
Option	'n	Operating Wavelength	Port	Grade	Pigtail Style	Fiber Length	In/Out Connector	
L = Latching N = Non-Lat	- I	15 = 1510 to 1610nm 13 = 1260 to 1360nm 35 = 1310 to 1550nm	0101 = 1x1	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	S = Single Port D = Dual Port