

# 1×1 Single Mode Mechanical Fiber Optic Switch

**Feature:**

- Unmatched Low Cost
- Low Insertion Loss
- High Channel Isolation
- Highly Stable and Reliable
- Epoxy-Free Optical path
- Latching or Non-Latching

**Application:**

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

**Performance Specification:**

Parameter	Unit	Specification	
Operating Wavelength	nm	1260~1360 or 1510~1610	1310nm / 1550nm ± 40nm
Insertion Loss	/	S Grade	
	dB	≤ 0.35	≤ 0.5
WDL	dB	≤ 0.20	≤ 0.25
PDL	dB	≤ 0.05	
TDL	dB	≤ 0.20	
Repeatability	dB	≤ ± 0.02	
Channel Cross Talk	dB	≥ 55	
Return Loss	dB	≥ 55	
Switching Speed (Typ.)	ms	4	
Optical Power	mW	500	
Operating Voltage	V	5	
Operating Temperature	°C	0 ~ +70	
Storage Temperature	°C	-40 ~ +85	
Fiber Type	/	Corning SMF-28e@Ultra	
Dimension (L×W×H)	mm	Dual Port: L22.3mm x W12.1mm x H11.0mm	

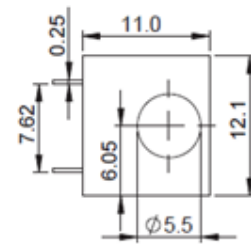
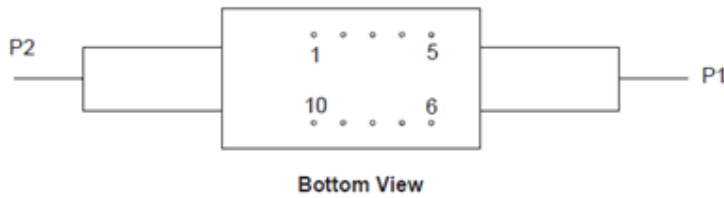
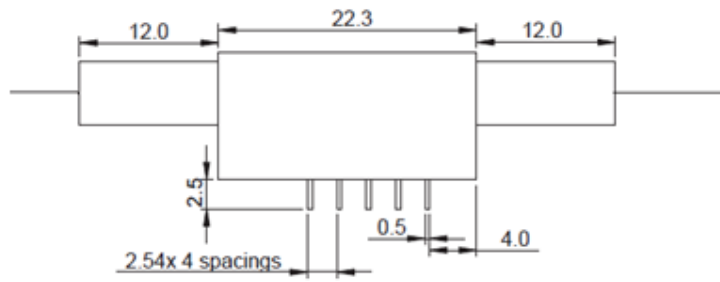
1. Measured at room temperature;
2. All above specs are without connectors. For devices with connectors, insertion loss will be 0.3dB higher, return loss will be 5dB lower.
3. Telcordia GR-1209 and GR-1221 qualified.

**Electrical Pin Configuration:**

Optical		OFF		ON	
Electric Drive	Non-Latching	Pin 1	Pin 10		
	Latching	Pin1	Pin5	Pin6	Pin10
		V+	GND	GND	V+
Sensor Status	Non-Latching	Pin 2-3, Pin 8-9 Open		Pin 2-3, Pin 8-9 Close	
		Pin 3-4, Pin 7-8 Close		Pin 3-4, Pin 7-8 Open	

**Package Dimension:**

**(H package-Dual Port)**



**Ordering Information:**

	Sensor Status	Operating Wavelength	Port	Grade	Pigtail Type	Fiber Length	In/Out Connector	
□□□	□	□□	□□□□	□	□	□	□□	□
SMS	N=Non-Latching L=Latching	13=1260~1360 15=1510~1610 35=1310/1550	0101=1x1	S=S Grade	1=bare fiber 2=900μm 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/PC 7=LC/APC	D=Dual Port