

SM Mechanical Optical Switch (1x2)

1. Description:

Optical switch in the optical signal function on and off in fiber or waveguide path, It will autosense the loss of light on the active input port and toggle the optical switch, transferring from the active to the alternate port.

2. Features:

- ◆ Low Cost
- ◆ Low insertion loss
- ◆ High Isolation
- ◆ No Plastic Light Path
- ◆ High Reliability and Stability

3. Applications:

- ◆ Optical Signal Routing
- ◆ System Monitoring
- ◆ Instrument and Equipment
- ◆ Optical Device Testing and Research
- ◆ Up/down Road Light Signal



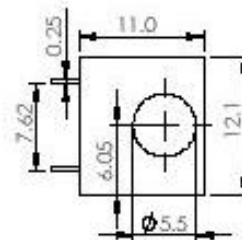
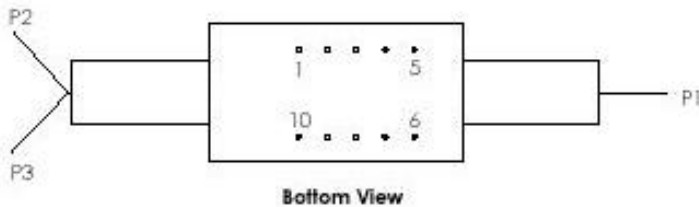
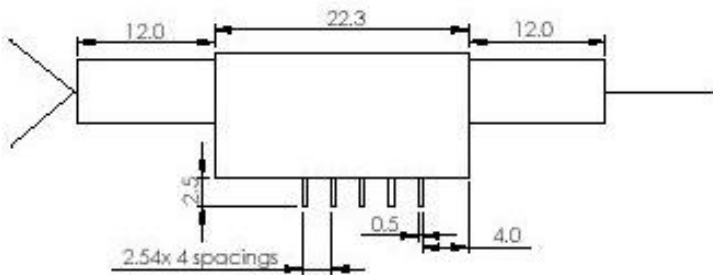
4. Specifications:

Parameter	Value			
	Grade P	Grade A	Grade P	Grade A
Operating Wavelength (nm)	1260~1360 or 1510~1610		1310/1550 ± 40	
IL (dB)	< 0.5	< 0.8	< 0.7	< 1.0
WDL (dB)	≤ 0.25	≤ 0.25	≤ 0.25	≤ 0.30
PDL (dB)	≤ 0.05	≤ 0.05	≤ 0.05	≤ 0.05
TDL(dB)	< 0.15	< 0.20	< 0.15	< 0.20
Crosstalk (dB)	>55	>55	>55	>55
Repeatability (dB)	< ± 0.02			
RL(dB)	> 55			
Switching Time(ms)	<10 (Typ.4)			
Coil Resistance (ohms)	178 ± 10%			
Working Voltage (V)	5			
Handing Power (mW)	500			
Durability (cycle)	>10 million			
Operating Temperature (°C)	0 ~ + 70			
Storage Temperature (°C)	-40 ~ +85			
Fiber Type	Corning SMF-28			
Fiber Length (Min.)	1.0 +/- 0.1			
Package Dimensions (mm)	22.3 × 12.1 × 11			

5. Electronic Pin Information:

Channel		Channel 1-2		Channel 1-3	
The Electronic Driver	Non-locking	Pin1	Pin10		
	Locking	Pin1	Pin5	Pin6	Pin10
		V+	GND	GND	V+
Status	Locking/ Non-locking	Pin2-3, Pin8-9 open		Pin2-3, Pin8-9 close	
		Pin3-4, Pin7-8 close		Pin3-4, Pin7-8 open	

6. Dimensions:



7. Order Information:

SMMS	Status	Port	Grade	Operating Wavelength	Fiber Type	Fiber Length	Connector
	L=Locking N=Non-locking	0102= 1x2	P= Grade P A= Grade A	15=1510~1610nm 13=1260~1360nm 35=1310/1550nm	1=250um 2=900um	1=1 m 2=2 m	0= None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC