1x2 Opto-Mechanical Switch

Features

- Unmatched Low Cost
- Low Insertion Loss
- Epoxy-Free Optical Path
- High Reliability and Stability
- High Stability

Applications

- Configurable Optical Networks
- Fiber Optic Instruments
- Optical Signal Routing
- Testing Instruments
- System Monitoring

Specifications

Parameters	Unit	Single Window	Dual Window
Center Wavelength	nm	1310, 1480, 1550 1590, 1625	1310&1550 C+L(1520~1620)
Bandwidth	nm	+/-30	
Insertion Loss	dB	≤0.8	≤1.0
Wavelength Dependent Loss	dB	≤0.25	≤0.30
Return Loss	dB	≥50	
PDL	dB	≤0.10	
Cross Talk	dB	≥55	
Switching Speed	ms	≤10	
Durability	cycle	≥10,000,000	
Repeatability	dB	≤+/-0.03	
Operating Voltage	V	3, 5	
Fiber Type	-	SMF-28 Fiber	
Fiber Tensile Load	N	5	
Maximum Optical Power (CW)	mW	300	
Operating Temperature	°C	0~70	
Storage Temperature	°C	-40~85	

Note: 1. Specifications are for device without connectors; Specifications may change without notice.
2. To add connectors, IL is 0.3dB higher, RL is 5dB lower.
3. Devices for higher optical power or with other type fiber or consigned fiber are also available.

Pin Configuration

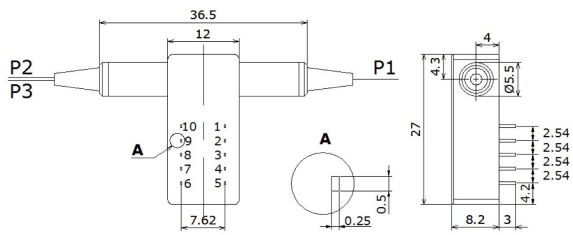
Latching Type:

Optical Path	Electrical Drive				Status Sensor			
	Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
Path 1-2	NC	NC	GND	V+	Close	Open	Open	Close
Path 1-3	V+	GND	NC	NC	Open	Close	Close	Open

Non-Latching Type:

Optical Path	Electrical Drive				Status Sensor			
	Pin 1	Pin 5	Pin6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
Path 1-2	NC	NC	NC	NC	Close	Open	Open	Close
Path 1-3	V+	NC	NC	GND	Open	Close	Close	Open

Package Dimension



Ordering Information (PN)

FOMS- NNNN - NN C C - C NN - CC/CCC

Center Wavelength	Configuration	Latching:	Voltage	Fiber Sleeve	Fiber Length	Connector Type
1310= 1310nm	11= 1x1 Type	L= Latching	3=3V	B= Bare Fiber	05=0.5m	N=Without Connector
1550= 1550nm	12= 1x2 Type	N=Non-Latching	5=5V	L= Loose Tube	10=1.0m	FC/APC=FC/APC Connector
1315= 1310nm&1550nm				2= 2mm Cable	15=1.5m	LC/PC=LC/PC Connector
CL= C+L Band				3= 3mm Cable	20=2.0m	SC/UPC=SC/UPC Connector