

Miniature 1x2 Single-Mode Optomechanical Switch



Optical Specifications

Parameters	Unit	Specifications	
Wavelength Range	nm	1260~1360 or 1510~1610	1260~1360 and 1510~1610
Insertion Loss	dB	<0.5 (P grade), <0.7 (A grade)	<0.8 (P grade), <1.0 (A grade)
WDL	dB	< 0.2	< 0.3
PDL	dB	< 0.05	
Return Loss	dB	> 50	
Cross Talk	dB	> 55	
Repeatability	dB	< ±0.02	
Optical Power Handling	mW	500	
Switching Time	ms	< 10.0	
Durability	cycles	> 10 million	
Switching Voltage	V	4.5 ~ 5.0	
Operating Temperature	°C	-5 ~ 70	
Storage Temperature	°C	-40 ~ 85	
Packaging Dimensions	mm	18 (L) x 11 (W) x 13-(H)	

Note: preliminary specifications may change without notice. Insertion loss and return loss are specified without connectors

Electrical Configuration

Latching Type

Configuration	Drive		Status Contacts			
	Pin 7	Pin 4	Pin 2-1	Pin 9-10	Pin 2-3	Pin 9-8
1x2	Pin 7	Pin 4	Pin 2-1	Pin 9-10	Pin 2-3	Pin 9-8
Path 1-2	+5V	GND	close	close	open	open
Path 1-3	GND	+5V	open	open	close	close

Non-Latching Type

Optical Path	Electric Control		Status Sensor			
	Pin 1	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
P1 - P2	V+	GND	open	close	close	open
P1 - P3	-	-	close	open	open	close

Ordering Information

O
S
1
2

0
0
0
0
0

0

Wavelength
 13 = 1260 to 1360nm
 15 = 1510 to 1610nm
 35 = 1260 to 1360nm & 1510 to 1610nm

Actuation Type
 N= non-latching
 L= latching

Fiber Type
 0= SMF-28

Fiber Length
 1= 1.0m
 5= 1.5m

Pigtail Type
 0= 250µm bare fiber

Connector
 0= None
 1= FC/UPC
 2= FC/APC
 3= SC/UPC
 4= SC/APC
 5= LC/UPC
 6= MU/UPC

This product information is subject to change without notice.

Features/Benefits

- Small size
- Low insertion loss
- Wide wavelength range
- Latch or non-latching options

Applications

- Network switching
- Network protection and restoration
- Testing instrumentation
- Configurable optical add/drop

Dimensions

