

## 1×2 Optical Switch

### Features:

- ◆ Low Insertion Loss
- ◆ Wide Wavelength Range
- ◆ Low Crosstalk
- ◆ High Stability, High Reliability
- ◆ Epoxy-free on Optical Path
- ◆ Latching and Non-latching



### Applications:

- ◆ R&D in Laboratory
- ◆ System Monitoring
- ◆ OADM
- ◆ MAN (Metropolitan Area Network)

### General:

OSM-1×2 Optical Switch, which is famous for its high performance, low insertion loss and compact dimension: (L) 27.0×(W) 12.6×(H) 8.2mm. It is an ideal component for OADM, OXC, system monitoring and protection.

With compact package, it can be easy to integrate into a high density optical communication system.

**Specifications:**

Parameters	Unit	OSM-1x2			
Wavelength Range	nm	850±40 / 1300±40		1260 ~ 1650	
Test Wavelength	nm	850 / 1300		1310 / 1550	
Insertion Loss <sup>Note 1, 2</sup>	dB	Typ.: 0.8	Max.: 1.2	Typ.: 0.6	Max.: 0.8
Return Loss <sup>Note 1, 2</sup>	dB	MM ≥ 30		SM ≥ 50	
Crosstalk <sup>Note 1</sup>	dB	MM ≥ 35		SM ≥ 55	
PDL	dB	≤0.05			
WDL	dB	≤0.25			
Repeatability	dB	≤±0.02			
Operating Voltage	V	3.0 or 5.0			
Durability	Cycles	≥ 10 Million			
Switching Time	ms	≤8			
Optical Power	mW	≤500			
Operating Temperature	°C	-20 ~ +70			
Storage Temperature	°C	-40 ~ +85			
Relative Humidity	%	5 ~ 95			
Weight	g	14			
Dimension	mm	(L)27.0×(W)12.6×(H)8.2 ±0.2			
<b>Note: 1, Within operating temperature and SOP. 2, Excluding connectors.</b>					

**Pin Configurations:**

Type	State	Optical Route	Electric Drive				Status Sensor			
			Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
1x2			Pin 1	Pin 5	Pin 6	Pin 10	Pin 2-3	Pin 3-4	Pin 7-8	Pin 8-9
Latching	A	P1-P2	--	--	GND	V+	Close	Open	Open	Close
	B	P1-P3	V+	GND	--	--	Open	Close	Close	Open
Non-latching	A	P1-P2	--	--	--	--	Close	Open	Open	Close
	B	P1-P3	V+	--	--	GND	Open	Close	Close	Open

**Optical Route:**


