

Optical Switch

**MAKE YOUR
OPTICAL NETWORKS
MORE RELIABLE**



Optical Switches are mainly used in optical add/drop system, OADM system, optical cross and connection (OXC) system, and optical fiber ring protection system. The products are Telcordia GR-1073-CORE qualified, and RoHS compliant.

Features

- Compact package
- Low insertion loss
- Low Crosstalk

Applications

- Configurable OADM
- Optical cross and connection system
- Network monitor
- Optical fiber ring protection

Specifications

Parameter	Unit	Value		
Switch Type		1×1, 1×2, 2×2, 2×2B		
Wavelength	nm	1310 or 1550(SM)	1310 and 1550(SM)	850 or 1310(MM)
Insertion Loss	dB	Typ:0.5 Max:0.8	Typ:0.7 Max:1.0	Typ:0.5 Max:0.8
Return Loss	dB	≥45	≥45	≥25
Crosstalk	dB	≥55	≥55	≥30
Repeatability	dB	≤±0.05		
Switch Time	ms	≤10		
Lifetime	time	>1,000,000		
Switch Mode		Latching or Non-latching		
Operation Temperature	°C	-15~+70		
Storage Temperature	°C	-40~+85		
Drive Voltage	V	5±0.5 DC or 5V Pulse		
Drive Current	mA	<50		
Package	mm	45×18×10		

	Light Pin					Drive Pin				Monitor Pin	
	1×1	1×2	2×2	2×2B		1	12	2	11	3-5, 10-8	3-6, 10-7
Latching	1-2	1-2	1-2	3-4	1-2	3-4	GND	+5VDC		Open	Close
		1-3	1-3	2-4	1-3			GND	+5VDC	Close	Open
Non-latching	1-2	1-2	1-2	3-4	1-2	3-4	GND	+5VDC		Open	Close
		1-3	1-3	2-4	1-3		GND	GND		Close	Open

Ordering information

OSW

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Channel	Wavelength	Fiber Type	Fiber Length	Switch Mode	Fiber Mode	Connector
11:1×1	085:850nm	025:Φ0.25mm	1:1.0m	L: Latching	S: Single mode	00: no connector、
12:1×2	131:1310nm	09:Φ0.9mm	customer specify	N: Non-latching	M: Multi-mode(62.5 μ m)	FC,SC,LC,MU/
22:2×2	155:1550nm					PC,UPC,APC
22B:2×2 (Blocking)	135:1310&1550nm					