

2×4 Micro Mechanical Optical Switch

MMOSW-2×4 Optical Switch is famous for its small volume, reliable performance, simple control mode. It is an ideal Component for OADM, OXC, system monitor and protection. With compact package, it could be easy to integrate into a high density optical communication system.

Features

- Wide Wavelength Range
- Low Crosstalk
- High Stability, High Reliability
- Unique Patent: non-glue in optical route
- Simple control



Applications

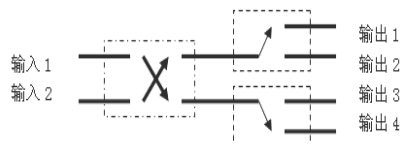
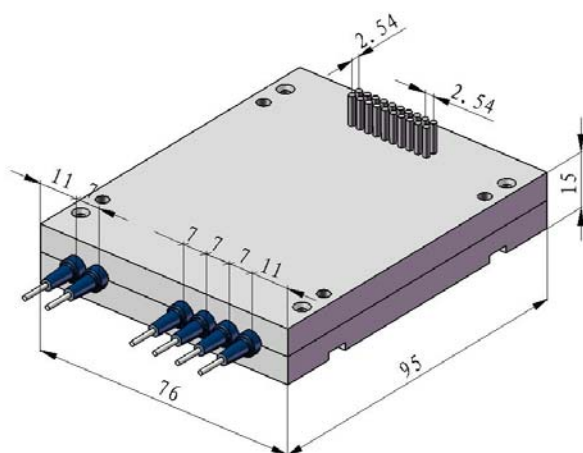
- Optical route switch
- System Monitor
- R&D in Laboratory
- Configurable OADM

Specifications

Parameters		MMOSW-2×4					
Wavelength Range	nm	1310 or 1490 or 1550 (SM)		1310 & 1490 & 1550 (SM)		850 or 1310(MM)	
Insertion Loss	dB	Typ:1.5	Max:1.8	Typ:1.8	Max:2.0	Typ:1.8	Max:2.0
PDL	dB	≤0.05					
Return Loss	dB	SM≥50、MM≥30					
WDL	dB	≤0.25					
Crosstalk	dB	SM≥55、MM≥35					
Repeatability	dB	≤±0.02					
Power Supply	v	5.0					
Lifetime	times	≥107					
Switch Time	ms	≤8					
Transmission Power	mW	≤500					
Operating Temperature	°C	-20~+70					
Storage Temperature	°C	-40~+85					
Dimension	mm	(L)95×(W)76×(H)15					

Ordering Information
MMOSW-2×4-①①-②-③-④-⑤-⑥-⑦

①①: Wavelength	②: Mode	③: Connector Type	④: Fiber Jacket	⑤: Fiber Length
65 - 1650nm	S: SM	1 - FC/PC	B - 250 μm Panda fiber	0 - 0.5 m
62 - 1625nm	M: MM	2 - FC/APC	L - 900 μm loose tube	1 - 0.75 m
55 - 1550nm		3 - SC/PC	D - 2mm cable	2 - 1 m
49 - 1490nm		4 - SC/APC	C - 3 mm cable	3 - 1.5 m
31 - 1310nm		5 - ST/PC	S - Specify	S - Specify
85 - 850nm		6 - ST/APC		
		7 - LC/PC	⑥: Fiber Type	⑦: Voltage Type
		8 - LC/APC	1 - 50/125	3 - 3V
		N - None	2 - 62.5/125	5 - 5V
		S - Specify	3 - 9/125	
			S - Specify	

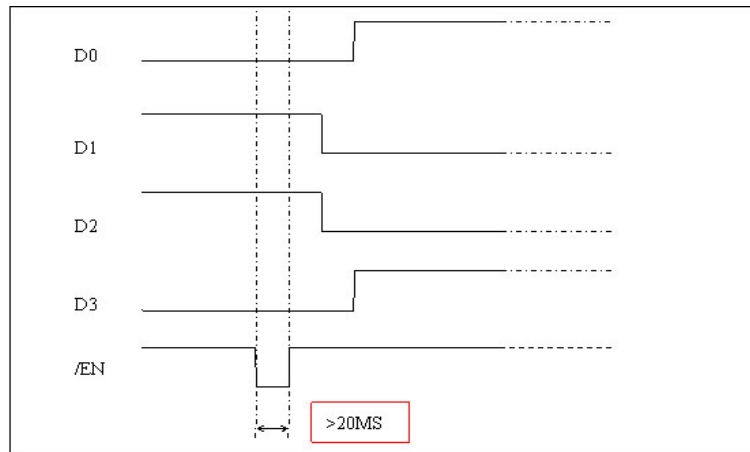
2×4 Optical Switch Dimensions (mm)


2x4 光路 (动态)

2×4 Optical Path (dynamic)
2×4 Optical Switch Pins

Pin No	Pin Name	Function description	Pin No	Pin Name	Function description
1	D0	Input 1 Control Signal Input	11	NC	
2	D1	Input 1 Control Signal Input	12	NC	
3	D2	Input 2 Control Signal Input	13	S0	Input 1 Status Output
4	D3	Input 2 Control Signal Input	14	S1	Input 1 Status Output
5	/EN	Enable(LowLevel)	15	S2	Input 2 Status Output
6	RST	Reset(High level)	16	S3	Input 2 Status Output
7	VCC	Power	17	NC	
8	GND	Power Ground	18	NC	
9	NC		19	NC	
10	NC		20	NC	

2×4 Optical Switch Switching Sequence Chart



2×4 Optical Switch Control

Selected Route		Controlling Pins				Inquiring Status Values			
		D0	D1	D2	D3	S0	S1	S2	S3
1→1	2→2	0	0	0	1	0	0	0	1
	2→3	0	0	1	0	0	0	1	0
	2→4	0	0	1	1	0	0	1	1
1→2	2→1	0	1	0	0	0	1	0	0
	2→3	0	1	1	0	0	1	1	0
	2→4	0	1	1	1	0	1	1	1
1→3	2→1	1	0	0	0	1	0	0	0
	2→2	1	0	0	1	1	0	0	1
	2→4	1	0	1	1	1	0	1	1
1→4	2→1	1	1	0	0	1	1	0	0
	2→2	1	1	0	1	1	1	0	1
	2→3	1	1	1	0	1	1	1	0