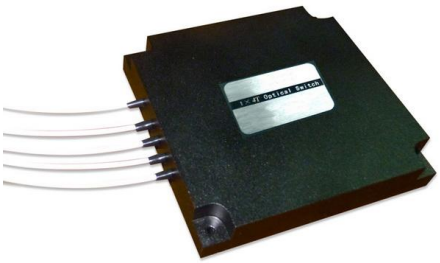
1x4 Optical Switch

Features

- Wide Wavelength Range
- Low Crosstalk
- High Stability, High Reliability
- Epoxy-free on Optical Path



Applications

- R&D in Laboratory
- System Monitoring
- OADM
- OXC

FSW-1x4 Optical Switch 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	FSW-1×4	
Wavelength Range	nm	850±40 / 1300±40	1260 ~ 1650
Test Wavelength	nm	850 / 1300	1310 / 1550
Insertion Loss	dB	Typ: 1.3 Max: 1.5	
Return Loss	dB	MM ≥ 30 SM ≥ 50	
Crosstalk	dB	MM ≥ 35 SM ≥ 55	
PDL	dB	≤ 0.15	
WDL	dB	≤ 0.35	
Repeatability	dB	≤ ±0.05	
Power Supply	V	5.0 ± 5%	
Durability	Cycles	≥ 10 Million	
Switching Time	ms	≤8	
Optical Power	mW	≤500	
Operating Temperature	℃	-20 ~ +70	
Storage Temperature	℃	-40 ~ +85	
Relative Humidity	%	5 ~ 95	
Dimension	mm	(L)90×(W)58×(H)14 ±0.2	(L)95×(W)76×(H)14 ±0.2

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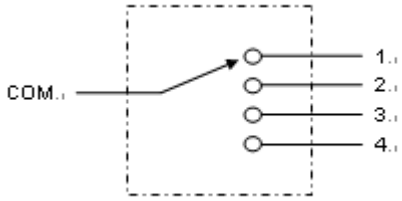
Pin Configurations

Pin No.	Signal Name	I / O	Description
1	D0	Input	Channel selection bit 0
2	D1	Input	Channel selection bit 1
3	NA		
4	NA		
5	/EN	Input	Channel Selection Enabled.
6	NA		
7	VCC	Input	5.0±5% VDC Power Supply (max 150mA).
8	GND	Input	Ground
9	NA		
10	NA		
11	NA		
12	NA		
13	S0	Output	Switch status output bit 0
14	S1	Output	Switch status output bit 1
15	NA		
16	NA		
17	NA		
18	NA		
19	NA		
20	NA		

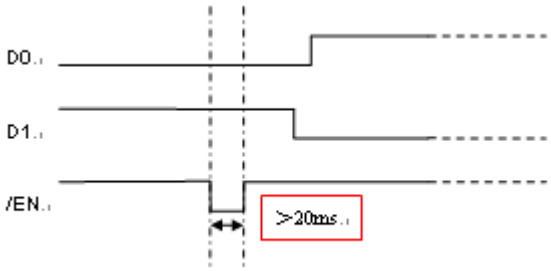
Channel Selection Correspond to Switch Status

Input			Active Channel	Output	
/EN	D1	D0		S1	S0
0	0	0	COM→1	0	0
0	0	1	COM→2	0	1
0	1	0	COM→3	1	0
0	1	1	COM→4	1	1
1	x	x	Hold	Hold	Hold

Optical Route

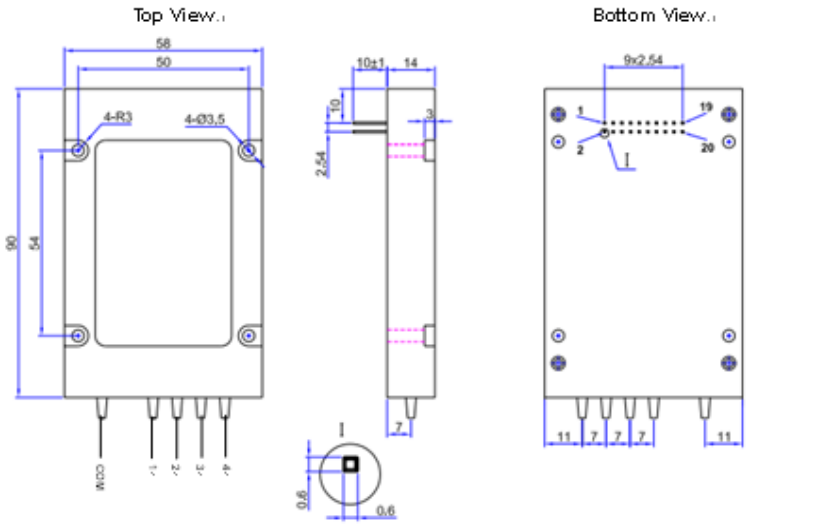


Timing Diagram

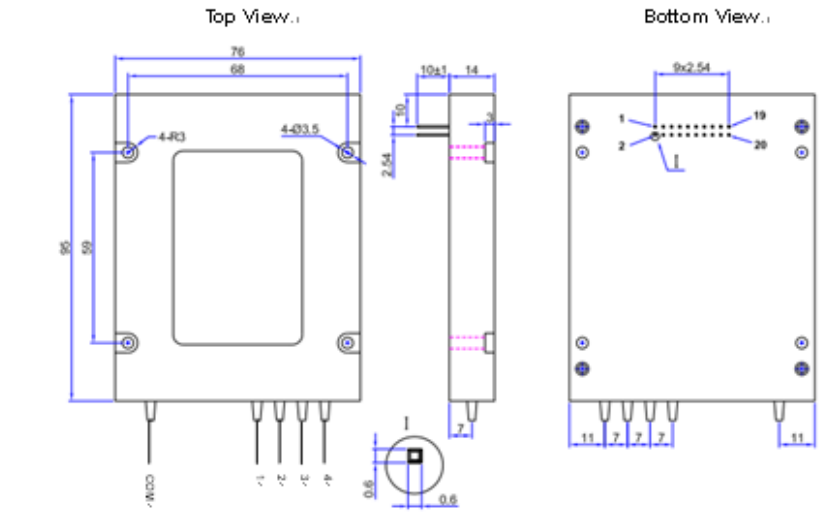


Dimension

- 01: 90×58×14



- 02: 95×76×14



Ordering Information: FSW-1×4-A-B-C-D-E-F-G

A	B	C	D	E	F	G
Fiber Type	Switch Type	Test Wavelength	Tube Type	Fiber Length (Include connector)	Connector	Dimension
SM: SM, 9/125 M5:MM, 50/125 M6:MM, 62.5/125 X: Others	L: Latching X: Others	850: 850nm 1310: 1310nm 1550: 1550nm 1310/1550:1310/1550nm X:Others	90:900um X: Others	05: 0.5m±5cm 10: 1.0m±5cm 15: 1.5m±5cm X: Others	OO:None FP: FC/PC FA: FC/APC SP: SC/PC SA: SC/APC STP: ST/PC STA: ST/APC LP: LC/PC LA: LC/APC X: Others	01: 90×58×14 02: 95×76×14 X: Others