

2x2BA 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)

FSW-2x2BA Optical Switch, which is famous for its high performance, low insertion loss and compact dimension:

(L)55.0×(W)30.0×(H)12.8mm. 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

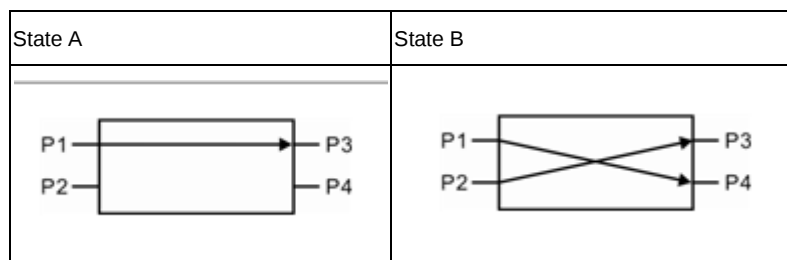
Parameters	Unit	FSW-2×2BA
Wavelength Range	nm	1260 ~ 1650
Test Wavelength	nm	1310 / 1550
Insertion Loss 1, 2	dB	Typ: 0.8 Max: 1.0
Return Loss 1, 2	dB	≥ 50
Crosstalk 1	dB	≥ 55
PDL	dB	≤0.05
WDL	dB	≤0.25
Repeatability	dB	≤±0.02
Operating Voltage	V	3.0 or 5.0
Durability	Cycles	≥ 10 Million
Switching Time	ms	≤8
Optical Power	mW	≤500
Operating Temperature	℃	-20 ~ +70
Storage Temperature	℃	-40 ~ +85
Relative Humidity	%	5 ~ 95
Weight	g	25
Dimension	mm	(L)55.0×(W)30.0×(H)12.8 ±0.2
Note:1 Within operating temperature and SOP.		
2 Excluding Connectors.		

Pin Configurations

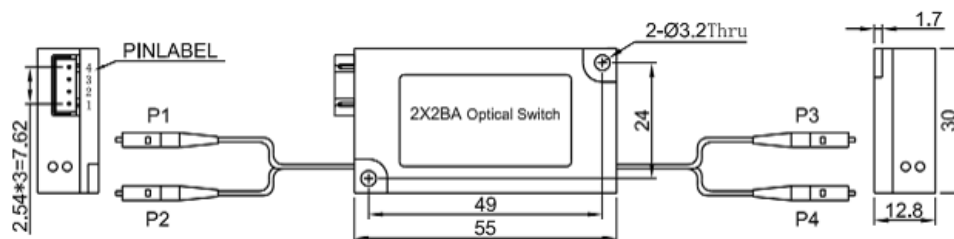
Type	State	Optical Route	Electric Drive			
2×2BA			Pin 1	Pin 2	Pin 3	Pin 4
Latching	A	P1-P3	V+	GND	--	--
	B	P1-P4 , P2-P3	--	--	GND	V+

Type	State	Optical Route	Electric Drive		Status Sensor
2×2BA			Pin 1	Pin 2	Pin 3-4
Non-latching	A	P1-P3	--	--	Open
	B	P1-P4 , P2-P3	V+	GND	Close

Optical Route



Dimension



Electrical Specification

Specifications	Voltage	Current	Resistance
5V latching	4.5~5.5 V	36~44 mA	125 Ω
5V non-latching	4.5~5.5 V	26~32 mA	175 Ω
3V latching	2.7~3.3 V	54~66 mA	50 Ω
3V non-latching	2.7~3.3 V	39~47 mA	70 Ω

Ordering Information: FSW-2×2BA-A-B-C-D-E-F-G

A	B	C	D	E	F	G
Fiber Type	Operating Voltage	Switch Type	Test Wavelength	Tube Type	Fiber Length (Include connector)	Connector
SM: SM,9/125 M5:MM,50/125 M6:MM,62.5/125 X : Others	3: 3V 5: 5V	L:Latching N:Non-latching	850:850nm 1310:1310nm 1550:1550nm 1310/1550:1310/1550nm X:Others	90:900um 20:2.0mm 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