

# 2X2B

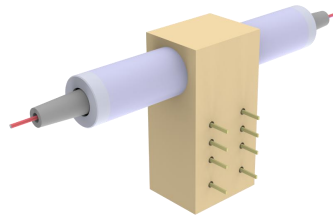
## mechanical optical switch

### Description

GrowsFiber's mechanical optical switch features low insertion , quick switching speed and excellent repeatability , which makes it ideally used for OADM , optical cross-connection systems, and system monitoring . All these patented switches are GR-1221-CORE and CR-1073-CORE qualified , and can be directly mounted on PCBs . GrowsFiber also provides customized design to meet individual needs and applications.

### Features

- Extremely high cost performance
- Low insertion loss
- Low crosstalk
- Fast Switching Speed
- High stability and reliability
- Epoxy-free on optical path
- Small size for easy integration



### Applications

- Optical Sensing System
- Network Test System
- Network Security and Monitoring
- Protection/Restoration
- Optical Signal Routing
- Configurable Optical Add/Drop
- Transmitter and Receiver Protection

### Compliance

- Telcordia GR-1073-CORE
- Telcordia GR-1221-CORE
- RoHS

# 2X2B

## mechanical optical switch

### Specifications

Parameters	Unit	D2X2B
Operating Wavelength	nm	1260~1650 (Test Wavelength:1310/1550)
Insertion Loss	dB	$\leq 1.2$ (Typical:1.0)
WDL	dB	$\leq 0.25$
TDL	dB	$\leq 0.2$
PDL	dB	$\leq 0.05$
RL	dB	$\geq 50$
Cross talk	dB	$\geq 55$
Repeatability	dB	$\pm 0.02$
Durability	Cycles	$\geq 10$ Million
Switch time	ms	$\leq 8$
Operating Voltage	V	3.3 or 5.0
Optical Power	MW	$\leq 500$
Operating Temperature	°C	-20~75
Storage Temperature	°C	-40~85
Operating Humidity	%	5~95
Dimensions	mm	L20xW10xH8( $\pm 0.2$ )
Connector Type	/	SC/PC(short Boot or standard)

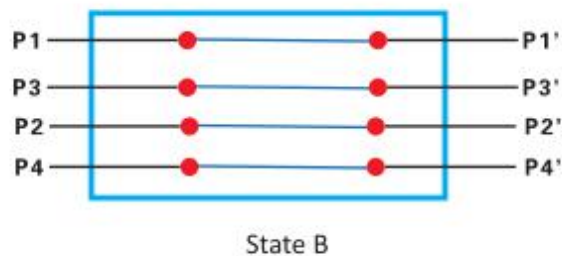
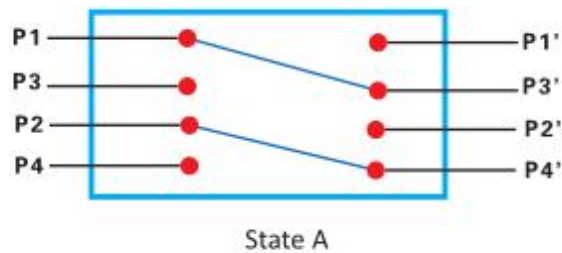
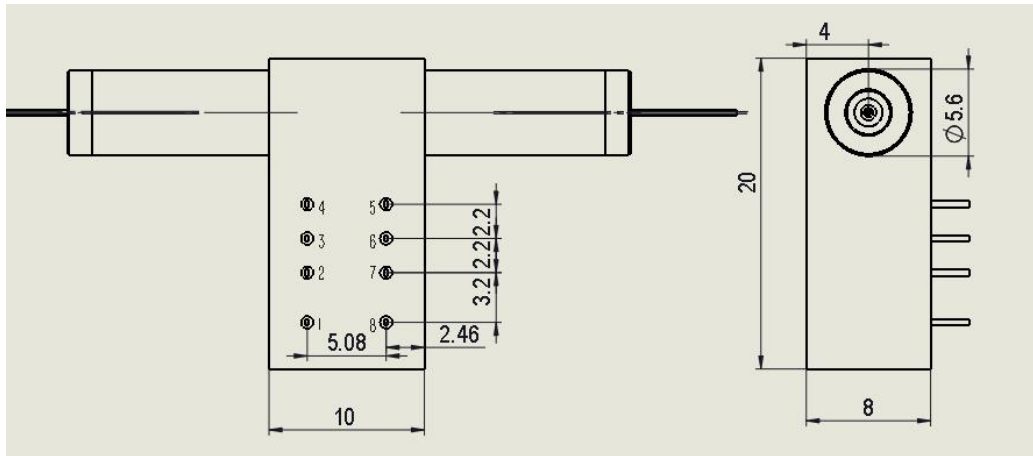
**Note:**

1. Within operating temperature and all sop.
2. Excluding connector, and add 0.4dB IL for a pair of connectors.
3. Excluding attenuator.

# 2X2B

# mechanical optical switch

## Mechanical Dimensions



# DATASHEET

# 2X2B

# mechanical optical switch

## Optical Route and I/O Pin Assignment(To FPGA)

非自锁(Non-self-latching)				
Optical channel	Electric Drive		Status Sensor	
	PIN1	PIN8	PIN2~3、PIN6~7	PIN3~4、PIN5~6
P1-P1'、P2-P2' P3-P3'、P4-P4'	N/A	N/A	Close	Open
P1-P3'、P2-P4'	V+	N/A	Open	Open

## Ordering information

Part Number	Product Description
	mini D2-2B optical switch,20*10*8mm package, non self-latching,5V driving voltage, 0.9mm loose tube,1.0m length