

## Optical “2x2 Bypass” Switch

(Preliminary)

### FEATURES:

- Fail Safe Non-Latching
- High Reliability
- Switch Mode Indicators
- Small Profile

### SPECIFICATIONS:

#### Optical:

Wavelength.....1270-1350 & 1510-1610 nm  
 Switching Time.....10 ms  
 Insertion Loss.....1.0 dB  
 Crosstalk.....-50 dB  
 Polarization Dependent Loss.....0.1 dB  
 Repeatability.....+/- 0.05 dB  
 Optical Return Loss.....50 dB  
 Input Optical Power.....500 mW  
 Life Cycles.....10 Million  
 Switch Type.....Non-Latching  
 Bypass Activation  
 -Loss of DC Power  
 -Contact Input (DC Power Present)  
 Connectors.....LC

#### DC Power:

Input Voltage.....12Vdc  
 Input Current.....100mA

#### Temperature:

Operating  
 -0°C to +65°C, non-condensing  
 Storage  
 -40°C to +85°C

#### Size:

Module : 4¼" x 4¼" x 1⅛"

#### Ordering information:

##### Multi-mode:

MOS-2X2-1315  
 2X2 Bypass, 1310nm & 1550nm, Module

##### Singlemode:

MOS-2X2-1315-SL  
 2X2 Bypass, 1310nm & 1550nm, Module



Photo of another product  
in a similar package

The American Fibertek Series OS optical bypass switch is designed especially for protection and restoration operations.

The OS Series 2x2 Bypass opto-mechanical fiberoptic switch provides a 2 x 2 optical bypass switch in a single compact package. The device connects optical channels by directing incoming optical signals into selected output fibers. This is achieved using an opto-mechanical configuration which is activated via an electrical control signal. The switch is bidirectional.

The optical bypass mode is triggered on when the optical switch loses DC power. Alternatively, the bypass mode may be activated from a contact input when DC power is present.

These optical switches are available in single mode and multi-mode.

