

LightBend™ 2x2 Optical Bypass Switch

Product Description

The Optical Bypass Switch utilizes two non-latching LB Series 2x2 OptoMechanical Fiberoptic switch connects optical channels by redirecting incoming optical signals into selected output fibers dependent on the presence of line voltage input. This is achieved using a patent pending opto-mechanical configuration and activated via an electrical control signal. The switch has integrated electrical position sensors. The new material based advanced design significantly reduces moving part position sensitivity, offering unprecedented high stability as well as unmatched low cost.



Performance Specifications

LB Series 2x2 Optical Bypass Switch	Unit
Wavelength	1260-1360 nm
Insertion Loss ¹	< 0.8 dB
Polarization Dependent Loss (PDL)	< 0.15 dB
Cross Talk	> 60 dB
Return Loss	> 55 dB
Switching Time	< 20 ms
Repeatability	< ±0.02 dB
Durability	> 10 Million Cycles
Operating Optical Power	< 500 mW
Operating Voltage	-56 ~ -40 V
Switch Type	Non-latching
Operating Temperature	0 ~ 70 °C
Storage Temperature	-40 ~ 85 °C
Fiber Type	Corning SMF-28
Connector Type	SC - UPC
Package Dimension	17.303 x 11 x 1.69 in

Notes:

¹With Connectors
Rev 010804

Features

- Low Optical Distortion
- High Isolation
- High Reliability
- Epoxy-Free Optical Path

Applications

- Protection

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Optical Path and Mechanical Layout

