

LightBend™ 4x4 OptoMechanical Fiberoptic Switch

(Protected by U.S. patent 6823102 and pending patents.)

Product Description

The LB Series 4x4 fiber optic switch connects optical channels by redirecting any of four incoming optical signals into any of four output fibers. This is achieved using a patent pending opto-mechanical configuration and activated via an electrical control signal. Latching operation preserves the selected optical path after the drive signal has been removed. This new material-based advanced design significantly reduces moving part position sensitivity, offering unprecedented high stability as well as an unmatched low cost. Electronic driver is available for this series of switches.



Performance Specifications

LB Series 4x4 Switch	Min	Typical	Max	Unit
Operation Wavelength	850, 1260-1360, 1510-1610			nm
Insertion Loss ¹	1.2		1.8	dB
Wavelength Dependent Loss			0.15	dB
Polarization Dependent Loss			0.15	dB
Return Loss	55			dB
Cross Talk	55			dB
Switching Time	4		10	ms
Repeatability			±0.05	dB
Operating Voltage	5	5	7	VDC
Operating Current	30		60	mA
Voltage Pulse Width (Latching)	20			ms
Switching Type	Latching, Non-Latching			
Operating Temperature	-5			°C
Optical Power Handling			500	mW
Storage Temperature	-40			°C
Package Dimension	142L x 68W x 15H			mm

Note:

1. Excluding connectors.

Features

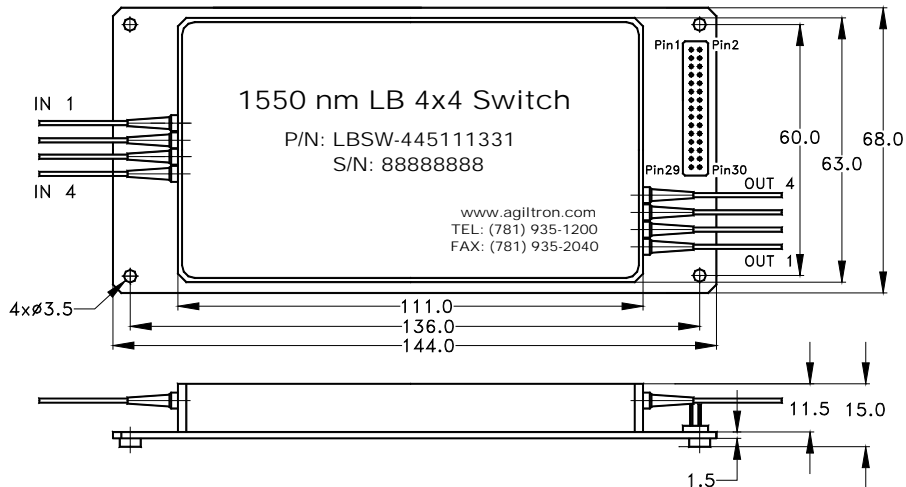
- Unmatched Low Cost
- Low Optical Distortions
- High Isolation
- High Reliability
- Epoxy-Free Optical Path

Applications

- Channel Blocking
- Configurable Add/Drop
- System Monitoring
- Instrumentation

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Mechanical Dimensions (Unit:mm)



Electrical Driving Requirement

Agiltron offers a computer control kit with RS232 interface and Windows™ GUI.

Ordering Information

LBSW-	<input type="checkbox"/> 4 <input type="checkbox"/> 4	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Type	Wavelength	Switch	Package	Fiber Type	Fiber Length	Connector			
4x4=44 Special=00	1310=3 1550=5 850 =8 Special=0	Latch=1 Non-latch=2	Standard=1 Special=0	SMF-28=1 50/125 Multimode=5 62.5/125 Multimode=6 Special=0	Bare fiber=1 900um tube=3 Special= 0	0.25m=1 0.5m=2 1.0m=3 Special=0	None=1 FC/PC=2 FC/APC=3 SC/PC=4 SC/APC=5 ST/PC=6 LC=7 Duplex LC=8 Special=0		