LightBendTM 1x2 PM OptoMechanical Fiberoptic Switch (Bidirectional)

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

Product Description

The LB series 1x2 PM fiber optic switch is a polarization-maintaining fiber switch, which connects optical channels by directing or blocking an incoming optical signal into the output fiber. This is achieved using a patent pending opto-machnical configuration and achieved via an electrical control signal. A latching version preserves the selected optical path after the drive signal has been removed, while the non-latching version defaults to either the open or close state when power is removed. The switches integrated electrical position sensors. The 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. The switch is bidirectional.

Performance Specification

LB Series 1x2 PM Switch	Min	Typical	Max	Unit
Operation Wavelength	780, 850, 980, 1060, 1260~1360, 1510~1610			nm
Insertion Loss [1]		0.9	1.3	dB
Extinction Dependent Loss [1]	18			dB
Return Loss [1], [2]	55			dB
Cross Talk [1]	50			dB
Switching Time		3	10	ms
Repeatability			±0.05	dB
Durability	10 ⁷			Cycle
Operating Voltage	4.5	5	6	VDC
Operating Current		30	60	mA
Voltage Pulse Width (Latching)	12	20		ms
Switching Type	Latching / Non Latching			
Operating Temperature	-5		70	°C
Storage Temperature	-40		85	°C
Optical Power Handling		300	500	mW
Fiber Type	Panda 400, Panda 250			

Note:

[1].Exclude connectors.

[2].-40~+85°C is also available.

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Revision: 11-18-15

ApplicationsFault ProtectionChannel Add/DropChannel SwitchingInstrumentation

06/23 / V1 / CHIF / diverse-fiber-optics/passive-components/lb-pm-1x2-switch

Germany and Other Countries

Laser Components Germany GmbH
Tel: +49 8142 2864-0
Fax: +49 8142 2864-11
info@lasercomponents.com
www.lasercomponents.com

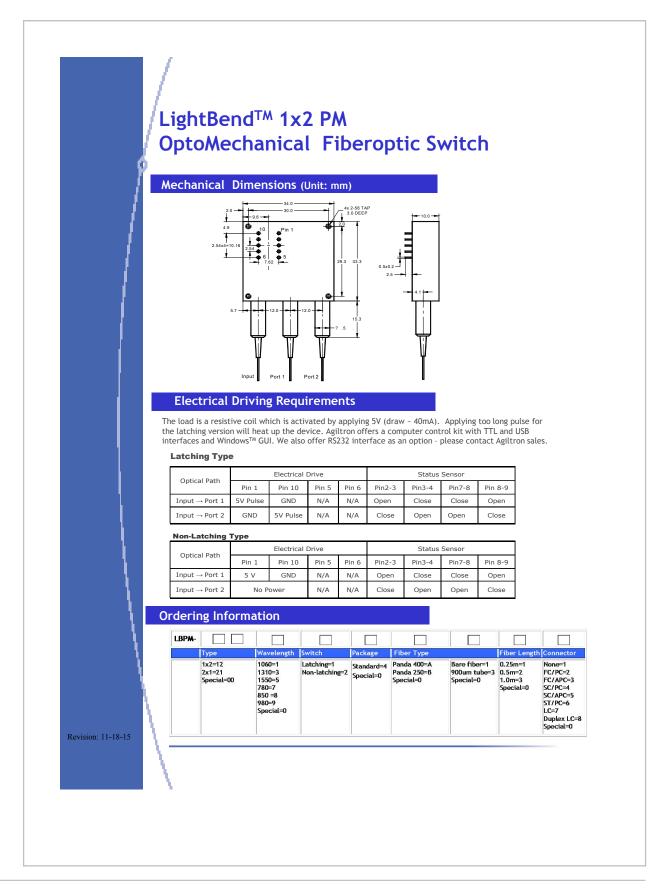
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Laser Components S.A.S.
Tel: +33 1 39 59 52 25
Fax: +33 1 39 59 53 50
info@lasercomponents.fr
www.lasercomponents.fr

United Kingdom

Laser Components (UK) Ltd. Tel: +44 1245 491 499 Fax: +44 1245 491 801 info@lasercomponents.co.uk www.lasercomponents.co.uk





Germany and Other Countries

Laser Components Germany GmbH
Tel: +49 8142 2864-0
Fax: +49 8142 2864-11
info@lasercomponents.com
www.lasercomponents.com

rance

laser Components S.A.S.
Tel: +33 1 39 59 52 25
Fax: +33 1 39 59 53 50
info@lasercomponents.fr
www.lasercomponents.fr

United Kingdom

Laser Components (UK) Ltd. Tel: +44 1245 491 499 Fax: +44 1245 491 801 info@lasercomponents.co.uk www.lasercomponents.co.uk