PM MEMS 1XN OPTICAL SWITCH

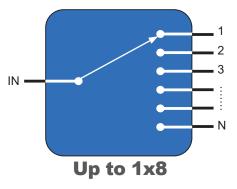
With External PCB



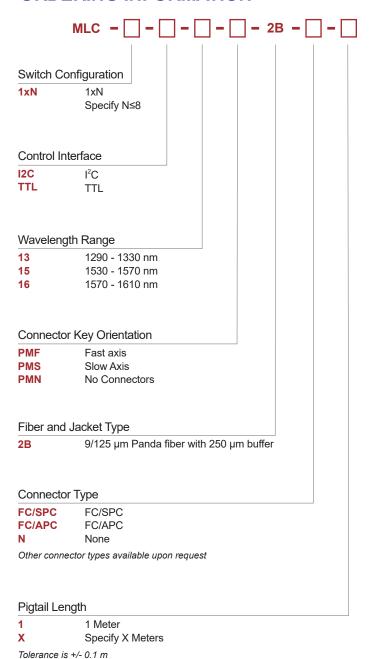
DiCon's PM MEMS 1xN Optical Switch provides channel selection between a single input fiber and N output fibers. At the core of the switch is DiCon's proprietary MEMS chip; an electrostatically driven mirror implemented using single-crystalline silicon and a stiction-free design. The mirror is capable of rotating on two axes, allowing the input light to be redirected back to any desired output. The switch is bi-directional and can be used as a Nx1 selector switch.

- · Proven MEMS Durability and Reliability
- · Compact Form Factor
- · High Extinction Ratio
- Lifetime > 1 Billion Switch Cycles

MEMS 1xN OPTICAL SWITCH



ORDERING INFORMATION





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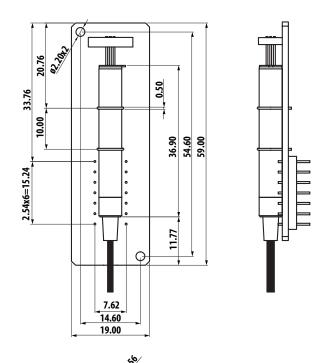
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OPTICAL SPECIFICATIONS¹

Insertion Loss ²	Up to 1x2	1.0 dB max.
	Up to 1x4	1.1 dB max.
	Up to 1x8	1.2 dB max.
Crosstalk ³		-50 dB max.
Back Reflection		-50 dB max.
TDL		0.25 dB max.
WDL ⁴		0.30 dB max.
Extinction Ratio ⁵		18 dB min.
Switching Time		30 ms max.
Repeatability ⁶		+/- 0.05 dB max.
Durability		10 ⁹ cycles min.
Optical Power		500 mW max.
Fiber Type		Panda Fiber

- 1. Specifications are without connectors.
- 2. IL is measured at CWL at room temperature.
- 3. Power off isolation is same as crosstalk.
- 4. Wavelength Dependent Loss (WDL) is measured in a +/- 20 nm range.
- 5. Extinction Ratio ratio with connectors is 15 dB min.
- 6. Repeatability is defined over 100 cycles.

Dimensions in mm



ø0.46x14

ELECTRICAL SPECIFICATIONS

Latching Type	non-latching
Control Type	I ² C and TTL
Vcc Voltage	12 VDC
Power Consumption	700 mW max.
Vcc Damage Threshold	15 VDC

DiCon Fiberoptics, Inc. — www.diconfiberoptics.com