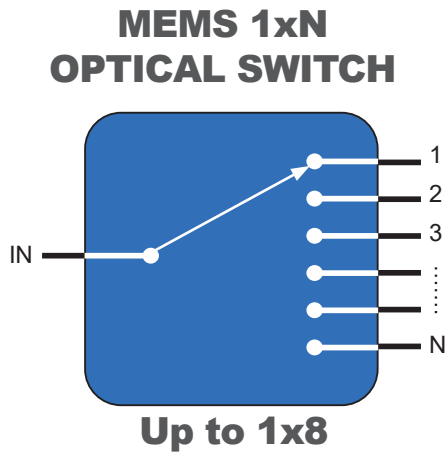
DiCon Fiberoptics, Inc.

PM MEMS 1XN OPTICAL SWITCH MODULE

PM 980 Fiber

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 mirror. The mirror is capable of rotating on two axes, allowing the input light to be redirected to any desired output. In addition, this optical switch is bi-directional and can be used as a Nx1 selector switch.

- Proven MEMS Durability and Reliability
- Compact Form Factor
- RS232, I2C or TTL Control



ORDERING INFORMATION

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Switch Configuration

1xN	1xN Specify N≤8

Control Interface

I2C	I^2C
RS2	RS232
TTL	TTL

Wavelength Range

9	980 nm
10	1064 nm

Other wavelengths ranges available upon request

Connector Key Orientation

PMS	Slow Axis
PMN	No Connectors

Fiber and Jacket Type

PM9/BF	Panda PM 980 Fiber, 250 µm barefiber
PM9/LT	Panda PM 980 Fiber, 900 µm loose tube over 250 µm barefiber

Other fiber options available upon request

Connector Type

FC	FC/UPC
FC/APC	FC/APC
LC	LC/UPC
LC/APC	LC/APC
N	None

Other connector types available upon request

Pigtail Length

1	1 Meter
X	Specify X Meters

Tolerance is +/- 0.1 m

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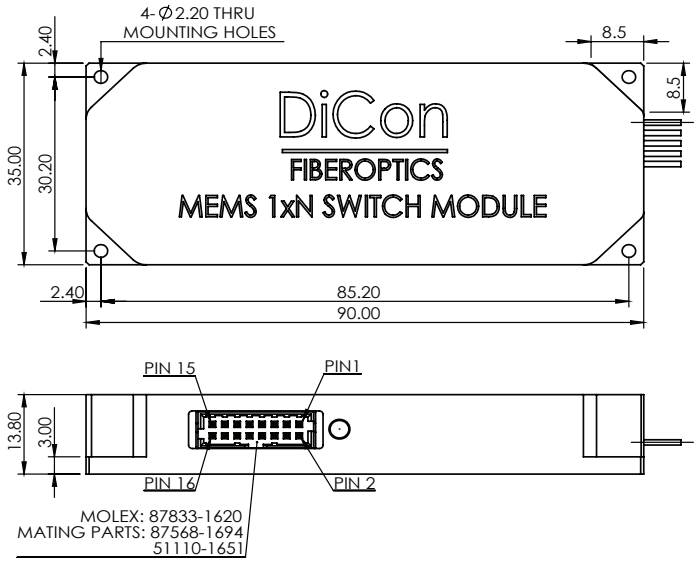
OPTICAL SPECIFICATIONS[1]

Insertion Loss[2]	Up to 1x2	1.0 dB max.
	Up to 1x4	1.2 dB max.
	Up to 1x8	1.2 dB max.
Crosstalk[3]		-50 dB max.
Back Reflection		-50 dB max.
Extinction Ratio[4]		18 dB min.
Switching Time		30 ms 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. Extinction Ratio ratio with connectors is 15 dB min.

Dimensions in mm



ELECTRICAL SPECIFICATIONS

Control Type		RS232, I^2C or TTL
Vcc Voltage		12 VDC
Power Consumption	Operating	1.0 W typ.
	Start Up	3.6 W max.
Connector Type		Molex 87833-1620

Please contact DiCon Fiberoptics to discuss any special requirements not defined above.