

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.

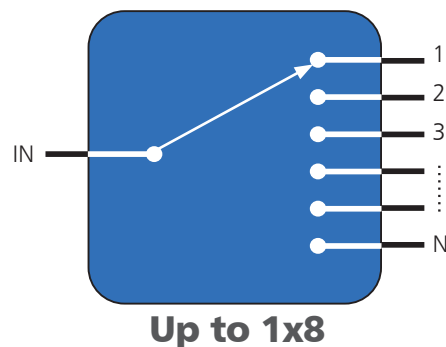
KEY FEATURES

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

APPLICATIONS

- Quantum Photonics
- Test & Measurement
- Biomedical

MEMS 1xN OPTICAL SWITCH



PM MEMS 1xN SWITCH MODULE - PM 980 Fiber

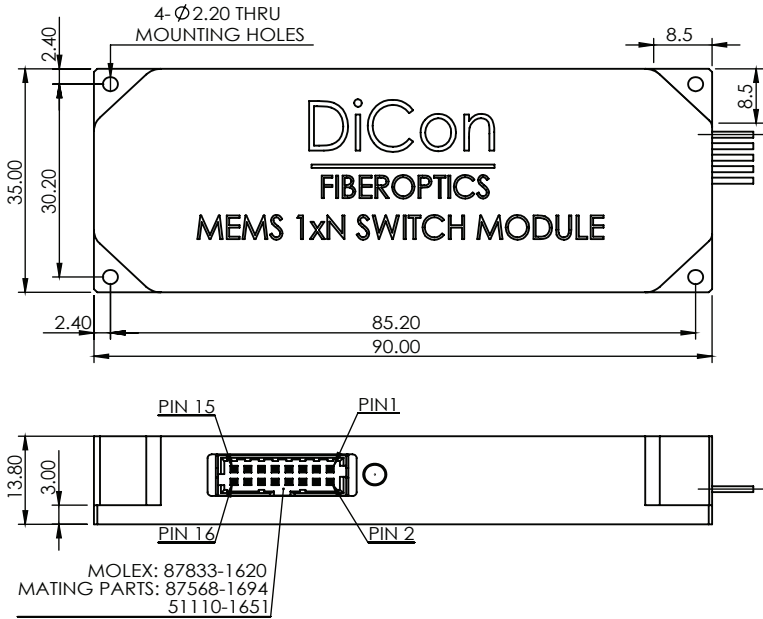
OPTICAL SPECIFICATIONS¹

PARAMETER		RATING
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

- Specifications are without connectors.
- IL is measured at CWL at room temperature.
- Power off isolation is same as crosstalk.
- Extinction Ratio ratio with connectors is 15 dB min.

MECHANICAL SPECIFICATIONS

Dimensions in mm



ORDERING INFORMATION

ML1 - □ - □ - □ - □ - □ - □ - □

Switch Configuration

1xN 1xN
Specify N ≤ 8

Control Interface

I2C I²C
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 +/- 0.05 m

ELECTRICAL SPECIFICATIONS

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

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