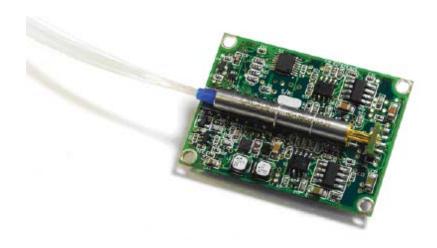
## PM MEMS 1XN OPTICAL SWITCH

DiCon's PM MEMS 1xN Optical Switch provides channel selcetion 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.



## **FEATURES**

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

## **APPLICATIONS**

- Optical Communications
- Fiber Optic Sensing
- Source Selection



# PM MEMS 1XN OPTICAL SWITCH

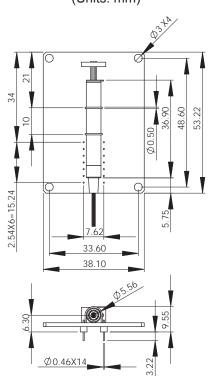
#### OPTICAL SPECIFICATIONS<sup>1</sup>

RATING
1.0 dB max.
-50 dB max.
-50 dB max.
0.40 dB max.
0.30 dB max.
18 dB min.
+/- 0.05 dB max.
500 mW max.
10° cycles min.
30 ms max.
-5 to 70°C
-40 to 85°C
9/125/250μm Panda Fiber

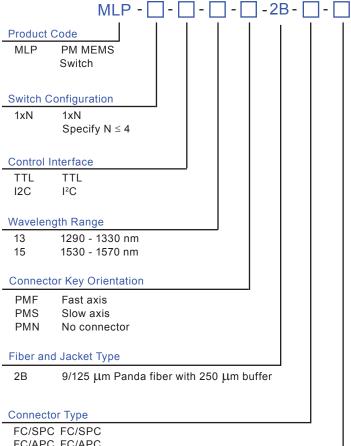
- 1. Specifications are without connectors.
- 2. IL is measured at CWL, 23°C.
- 3. Power off isolation is same as crosstalk.
- 4. WDL is measured in a +/- 20nm range at 23°C.
- 5. Repeatability is defined after 100 cycles.

## MECHANICAL DIMENSIONS

(Units: mm)



### ORDERING INFORMATION



FC/SPC FC/SPC FC/APC FC/APC N NONE

Also Available: SC, SC/UPC, SC/APC, ST, ST/UPC, LC

#### Pigtail Length

1 1 Meter X Specify X Meters

Tolerance is +/- 0.05 m

#### **ELECTRICAL SPECIFICATIONS**

PARAMETER	RATING
Latching Type	non-latching
Control Type	I <sup>2</sup> C and TTL
Vcc Voltage	12 VDC
Power Consumption	1.2 W max.
Vcc Damage Threshold	15 VDC