PM MEMS 1XN OPTICAL SWITCH WITH EXTERNAL PCB

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 stictionfree 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

WITH EXTERNAL PCB

OPTICAL SPECIFICATIONS1

ER	RATING
1x2	1.0 dB max.
1x3, 1x4	1.5 dB max.
	-50 dB max.
ection	-50 dB max.
	0.25 dB max.
	0.30 dB max.
Ratio	18 dB min.
lity ⁵	+/- 0.05 dB max.
ower	500 mW max.
	10 ⁹ cycles min.
ime	40 ms max.
Temp	-5 to 70°C
emp	-40 to 85°C
;	9/125/250µm Panda Fiber
	1x2 1x3, 1x4 ection Ratio lity ⁵ ower me Temp emp

1. Specifications are without connectors.

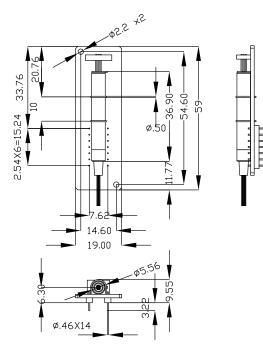
2. IL is measured at CWL, 23°C.

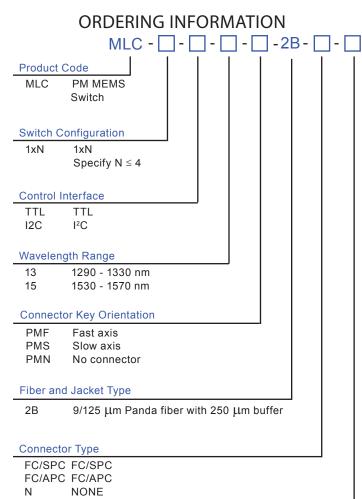
3. Power off isolation is same as crosstalk.

4. WDL is measured in a +/- 20nm range at 23°C.

5. Repeatability is defined after 100 cycles.

MECHANICAL DIMENSIONS (Units: mm)





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 ² C and TTL
Vcc Voltage	12 VDC
Power Consumption	700 mW max.
Vcc Damage Threshold	15 VDC