MEMS 1XN OPTICAL SWITCH

DiCon's MEMS 1xN Optical Switch is a high reliability,cost effective fiber optic switch available in any 1xN size up to 1x128, making it ideal for PON fiber monitoring applications. Based upon DiCon's industry proven MEMS technology, this optical switch has a lifetime greater than 1 billion switch cycles and performance can be optimized to any requested monitoring wavelength or wavelength range. Its compact design, 165 x 136 x 26 mm, makes it easy to integrate into a rack mount system.

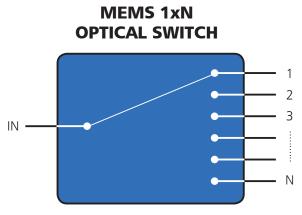


FEATURES

- High Reliability
- Cost Effective
- Available up to 1x128
- Proven DiCon MEMS Technology

APPLICATIONS

- Fiber Monitoring
- Fiber Sensing



Up to 1x128



MEMS 1XN OPTICAL SWITCH

OPTICAL SPECIFICATIONS¹

PARAMETER		RATING		
Insertion Loss ^{2,3}	Up to 1x96	0.8 dB typ. / 1.2 dB max.		
	Up to 1x128	0.8 dB typ. / 1.2 dB max.		
Crosstalk ⁴		-50 dB max.		
Back Reflection		-50 dB max.		
Switching Time		30 ms max.		
TDL		0.40 dB max.		
WDL ⁵		0.40 dB max.		
PDL ⁶		0.10 dB max.		
Repeatability ⁷		0.04 dB max.		
Optical Power		500 mW max.		
Durability		10 ⁹ cycles min.		
Operating Temperature		-5 to 70 °C		
Storage Temperature		-40 to 85°C		
Fiber Type		9/125 um Singlemode		

1. Specifi cations are without connectors.

2. IL is for single-band. Dual-band adds 0.3 dB.

3. Measured at CWL, 23°C.

4. Power off isolation is the same as crosstalk.

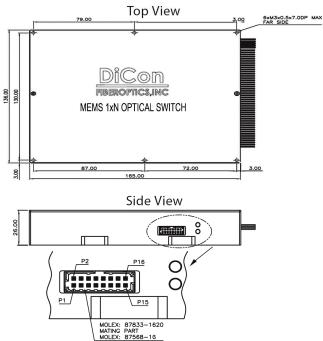
5. WDL is measured in a \pm 20nm range at 23°C.

6. PDL is for single-band. Dual-band adds 0.05 dB.

7. Repeatability is defi ned after 100 cycles.

MECHANICAL SPECIFICATIONS

Dimensions in mm



ORDERING INFORMATION

	MS5	-
Produc	t Code	
MS5	MEMS Switch	
Switch	Configuration	
1xN	1xN, Specify N≤128 (ex. 1x128)	
Control	Interface	
I2C RS2	I ² C RS232	
Wavele	ngth Range	
13 15 16 13/15 15/16 Other way	1290 - 1330 nm 1530 - 1570 nm 1570 - 1610 nm 1290 - 1330 & 1530 - 1570 nm 1530 - 1570 & 1570 - 1610 nm velength ranges available upon request.	
Fiber ar	nd Jacket Type	
9/BF 9/LT	Corning SMF-28, Bare fiber Corning SMF-28, Loose-tube	
Connec	tor Type	
LC N	LC/SPC NONE	
Other con	nnectors available upon request.	

Pigtail Length

1 1 Meter X Specify X Meter

Tolerance is +/- 0.05 m

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ELECTRICAL SPECIFICATIONS

PARAMETER	RATING
Latching Type	non-latching
Control Type	I ² C, RS232
Vcc Voltage	12 VDC
Power Consumption	1 W max.
Connector Type	Molex 87833-1620