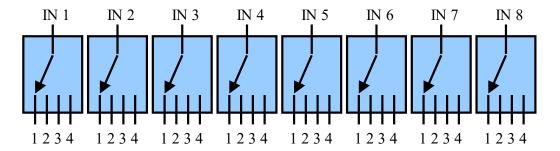
MEMS MULTI-MODE 1XN OPTICAL ARRAY SWITCH

DiCon's MEMS Multi-mode 1xN Optical Array Switch houses and controls up to 16 MEMS 1xN multi-mode optical switches through a single control interface. The switches are bi-directional and can also be used in the reverse direction as an Nx1 selector switch.

DiCon's optical switches operate by collecting and collimating light from the input fiber, and then reflecting this light off of an ultrastable and reliable, 2-axis DiCon MEMS mirror, which precisely directs the light to the requested output fiber. The input and output fibers aligned to the MEMS mirror using a single ferrule, resulting in an extremely compact, robust design. The MEMS mirror utilizes DiCon's advanced MEMS technology developed over many years at DiCon, and tested and proven in the telecommunications, aerospace and other demanding applications.



FEATURES

- High Reliability
- Proven MEMS Technology
- Lifetime > 1 Billion Switch Cycles
- Controls up to 16 MEMS Optical Switches

APPLICATIONS

- Fiber Sensing
- Resource Sharing
- Test & Measurement



MEMS MULTI-MODE 1XN OPTICAL ARRAY SWITCH

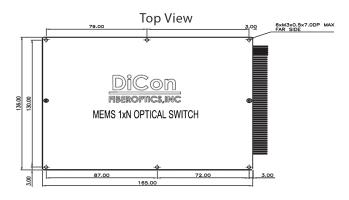
OPTICAL SPECIFICATIONS^{1,2}

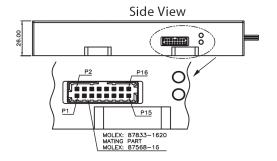
PARAMETER		RATING	
Insertion Loss ^{3,4}	1x2, 1x4	1.0 dB max.	
	1x8	1.2 dB max.	
Crosstalk ⁵	50 um	-25 dB max.	
	62.5 um	-20 dB max.	
Back Reflection		-20 dB max.	
Switching Time		30 ms max.	
TDL		0.40 dB max.	
Repeatability ⁶		0.02 dB max.	
Durability		10 ⁹ cycles min.	
Optical Power		500 mW max.	
Operating Temp		-5 to 70°C	
Storage Temp		-40 to 85°C	
Fiber Type		Multi-mode	

- 1. Specifications are without connectors.
- 2. Aligned transparent to channel 1.
- 3. IL is measured at specific wavelength, 23°C.
- 4. IL is for single-band. Dual-band adds 0.3 dB.
- 5. Optical off state isolation is the same as crosstalk.
- 6. Repeatability is defined within 100 cycles.

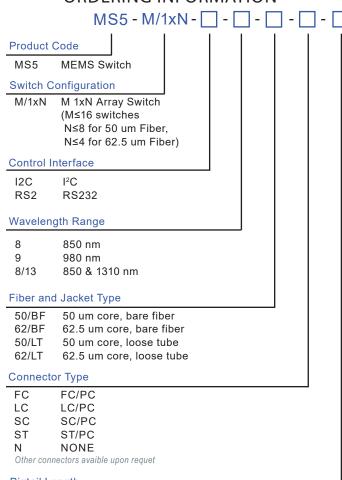
MECHANICAL DIMENSIONS

(Units: mm)





ORDERING INFORMATION



Pigtail Length

1 Meter 1 Χ

Specify X Meters

Tolerance is +/- 10 cm

ELECTRICAL SPECIFICATIONS

PARAMETER	RATING	
Latching Type	non-latching	
Control Type	I ² C or RS232	
Vcc Voltage	12 VDC	
Power	Start Up	5.0 W max.
Consumption	Operating	1.9 W max.
Connector Type	Molex 87833-1620	