MEMS MULTI-MODE RACKMOUNT 1XN ARRAY OPTICAL SWITCH

DiCon's MEMS Multi-Mode Rackmount 1xN Array Optical Switch allows for the precise control of multiple 1xN optical switches through a single control interface. The array of optical switches can be controlled individually or synchronously, and are bidirectional so they can be used in either a 1xN or Nx1 orientation.

DiCon's MEMS 1xN optical switches offer excellent optical performance, high reliability over a very long lifetime. They have been tested and proven in the telecommunication, aerospace and other demanding applications.



FEATURES

- Proven MEMS Durability and Reliability
- Compact Form Factor
- Fast Switching Time

APPLICATIONS

- Bio-medical Instrumentation
- Fiber Sensing
- Video Distribution



MEMS MULTI-MODE RACKMOUNT 1XN ARRAY OPTICAL SWITCH

OPTICAL SPECIFICATIONS^{1,2}

PARAMETER		RATING	
Insertion	Up to 1X4	1.0 dB max.	
Loss ^{3,4}	Up to 1x8	1.4 dB max.	
Crosstalk⁵	50 µm	-25 dB max.	
	62.5 μm	-20 dB max.	
Back Reflection		-20 dB max.	
Switching Time		30 ms max.	
TDL		0.4 dB max.	
Repeatability ⁶		0.04 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.

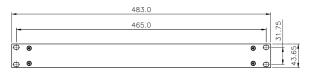
3. IL is measured at specified wavelength, 23°C \pm 5°C.

4. IL is for single-band. Dual-band adds 0.4 dB.

5. Optical off state isolation is the same as crosstalk.

6. Repeatability is defined within 100 cycles.

MECHANICAL DIMENSIONS 10 19" RACKMOUNT CHASSIS



FRONT PANEL CONNECTOR & CHASSIS OPTIONS¹

CHASSIS SIZE	FC	SC	LC
1U	1x42	1x54	1x84
2U	1x72	1x80	1x144
4U	1x230	1x225	1x380

1. Maximum 1xN size based on connector spacing and chassis size.

ORDERING INFORMATION MSR- □/□- □- □- □- □- □- □ ∃-в-∏ **Product Code** MSR MEMS Rackmount Switch Number of Switches # of Switches М Specify M≤16 Switch Configuration 1xN 1xN Switch Specify N≤8 for 50um Specify N≤4 for 62.5um Housing Type 1U 1U Rackmount 2U Rackmount 211 4U 4U Rackmount **Control Interface** ETH Ethernet RS232 RS2 E/R Ethernet & RS232 Only one control interface can be selected at a time. Wavelength Range 8 850 nm only 9 980 nm only 8/13 850 & 1310 nm Other wavelengths available upon special request Fiber Type 50 50 µm core 62 62.5 µm core **Connector Type** FC FC/PC LC LC/PC SC SC/PC ST/PC ST NONE Ν Other connector types available upon request Port Type В **Bulkhead Adaptors** Port Location Front Panel F R Rear Panel ELECTRICAL SPECIFICATIONS

PARAMETER		RATING	
Latching Type		Non-Latching	
Vcc Voltage		100 - 240 VAC	
Control Type		Ethernet or RS232	
Connector	Ethernet	RJ45	
Туре	RS-232	9-Pin DB9	