## 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 1 xN or Nx 1 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 ${ }^{1}$

| PARAMETER |  |
| :--- | :--- |
| Insertion <br> Loss $^{2,3,4}$ | RAT to $1 \times 4$ |
|  | 1.0 dB max. |
|  | Up to $1 \times 8$ |
|  | 1.4 dB max. |
|  | $62.5 \mu \mathrm{~m}$ |
| Back Reflection | -25 dB max. |
| Switching Time | -20 dB max. |
| TDL | 30 ms max. |
| Repeatability ${ }^{6}$ | 0.4 dB max. |
| Durability | 0.04 dB max. |
| Optical Power | $10^{9}$ cycles min. |
| Operating Temp | 500 mW max. |
| Storage Temp | -5 to $70^{\circ} \mathrm{C}$ |
| Fiber Type | -40 to $85^{\circ} \mathrm{C}$ |

1. Specifications are without connectors.
2. IL is measured at specified wavelength, $23^{\circ} \mathrm{C}$.
3. IL is for standard transparent model.
4. IL is for single-band. Dual-band adds 0.4 dB .
5. Power off isolation is same as crosstalk.
6. Repeatability is defined after 100 cycles.

ELECTRICAL SPECIFICATIONS

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

FRONT PANEL CONNECTOR \& CHASSIS OPTIONS ${ }^{1}$

| CHASSIS SIZE | FC | SC | LC |
| :---: | :---: | :---: | :---: |
| 1 U | $1 \times 42$ | $1 \times 54$ | $1 \times 84$ |
| 2 U | $1 \times 72$ | $1 \times 80$ | $1 \times 144$ |
| 4 U | $1 \times 230$ | $1 \times 225$ | $1 \times 380$ |



