## MEMS MULTIMODE HIGH ISOLATION ON-OFF OPTICAL SWITCH

DiCon's MEMS Multimode On-Off Optical Switch has one input and one output fiber and provides the ability to turn on or off the optical signal passing through it. These fiber optic switches are compact cylindrical devices driven by a direct analog voltage and are intended to be integrated into a larger optical system.

## FEATURES

- High Isolation (50 dB min)
- Proven MEMS Technology
- Qualified to GR-1221
- High Reliability


## APPLICATIONS

MEMS Multimode On-Off Optical Switches are useful in secure optical communication applications where it is critical to control the flow of sensitive information, or in test applications where it is desired to simulate the cutting of fiber optic cables.

## MEMS MULTIMODE ON-OFF OPTICAL SWITCH

OPTICAL SPECIFICATIONS¹

| PARAMETER | RATING |
| :--- | :--- |
| Insertion Loss ${ }^{2,3}$ | 1.0 dB max. |
| Crosstalk 50 um | -50 dB max. |
|  | 62.5 um |
| Back Reflection | -50 dB max. |
| TDL | -20 dB max. |
| Repeatability ${ }^{4}$ | 0.30 dB max. |
| Optical Power | 0.05 dB max. |
| Durability | 500 mW max. |
| Switching Time ${ }^{5}$ | $10^{9}$ cycles min. |
| Operating Temp | 10 ms 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 CWL, $23^{\circ} \mathrm{C}$. In 'ON" State.
3. IL is for single-band. Dual-band adds 0.3 dB .
4. Repeatability is defined after 100 cycles.
5. When using optimized votlage ramp.

## MECHANICAL DIMENSIONS <br> (Units: mm)

Housing


ORDERING INFORMATION


