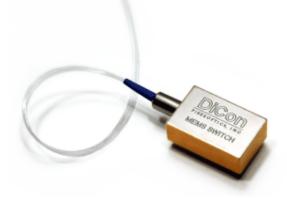
MEMS VIS/NUV 1X4 OPTICAL SWITCH

DiCon's MEMS 1x4 Switch provides channel selection between a single input fiber and four output fibers. At the core of the switch is DiCon's proprietary MEMS chip; an electrostatically driven mirror implemented using single-crystalline silicon and a stiction-free design. The mirror is capable of rotating on two axes, allowing the input light to be redirected back to any desired output in a 2D space. The switch is bi-directional and can be used as a 4x1 selector switch.



FEATURES

- Proven MEMS Durability and Reliability
- Compact Form Factor
- Fast Switching Time
- TTL Parallel or I²C Serial Control Interface
- Qualified to GR-1221

APPLICATIONS

- Bio-medical Instrumentation
- Fiber Sensing



MEMS VIS/NUV 1X4 OPTICAL SWITCH

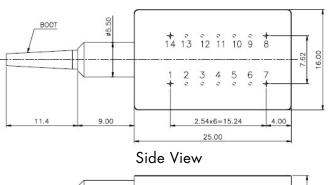
OPTICAL SPECIFICATIONS¹

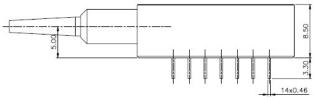
PARAMETER		RATING
Insertion Loss ^{2,3}	1x2	1.2 dB max.
	1x4 50 μm	1.2 dB max.
	1x4 62.5 µm	1.5 dB max.
Crosstalk ⁴		-25 dB max.
Back Reflection		-20 dB max.
Switching Time		20 ms max.
TDL		0.20 dB max.
Repeatability ⁵		0.02 dB max.
Durability		109 cycles min.
Optical Power		500 mW max.
Operating Temp		-5 to 70°C
Storage Temp		-40 to 85°C
Fiber Type		Multi-mode, Bare Fiber

- 1. Specifications are without connectors.
- 2. IL is measured at specified wavelength, 23°C.
- 3. IL is for standard transparent model.
- 4. Power off isolation is -15 dB.
- 5. Repeatability is defined after 100 cycles.

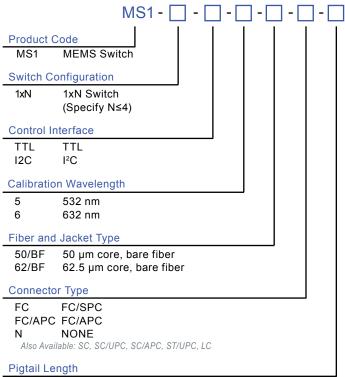
MECHANICAL DIMENSIONS

(Units: mm) Top View





ORDERING INFORMATION



1 Meter

Specify X Meters

Tolerance is +/- 10 cm

ELECTRICAL SPECIFICATIONS

PARAMETER	RATING
Latching Type	non-latching
Control Type	I ² C and TTL
Vcc Voltage	12 VDC
Power Consumption	170 mW max.
Vcc Damage Threshold	15 VDC