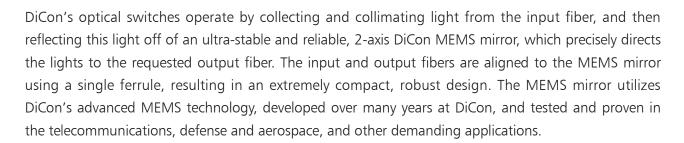
MEMS 1XN LARGE FAN-OUT OPTICAL SWITCH

WITH EXTERNAL PCB

DiCon's MEMS 1xN Large Fan-Out Optical Switch allows the automated connection between one input fiber and up to 32 output fibers. The switch is bidirectional and can be also used in the reverse direction as a Nx1 selector switch.

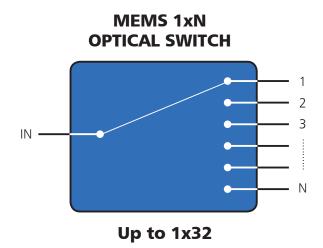


FEATURES

- Up to 1x32
- Compact Form Factor
- Lifetime > 1 Billion Switch Cycles

APPLICATIONS

- Fiber Monitoring
- Optical Network Routing
- Fiber Sensing
- Resource Sharing





MEMS 1XN LARGE FAN-OUT OPTICAL SWITCH

WITH EXTERNAL PCB

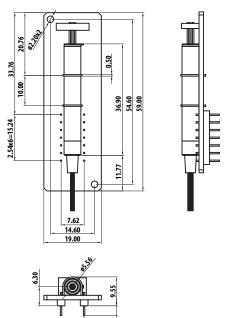
OPTICAL SPECIFICATIONS 1

PARAMETER		RATING
Insertion Loss ^{2,3}	1x24	0.5 dB typ. / 1.0 dB max.
	1x32	0.5 dB typ. / 1.0 dB max.
Crosstalk ⁴		-50 dB max.
Back Reflection		-50 dB max.
Switching Time		30 ms max.
TDL ⁵		0.15 dB max.
WDL ^{6,7}		0.30 dB max.
PDL		0.15 dB max.
Repeatability ⁸		+/- 0.05 dB max.
Optical Power		500 mW max.
Durability		10 ⁹ cycles min.
Operating Temperature		-5 to 70 °C
Storage Temperature		-40 to 85°C
Fiber Type		9/125 um Singlemode

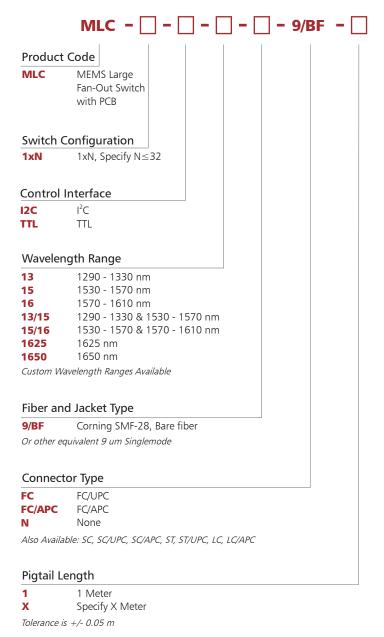
- 1. Specifications are without connectors.
- 2. IL is measured at CWL, 23°C.
- 3. IL is for single-band. Dual-band adds 0.3dB.
- 4. Power off isolation is same as crosstalk.
- 5. TDL is for single-band. Dual-band adds 0.15dB.
- 6. WDL is measured in a +/- 20nm range at 23°C.
- 7. WDL is N/A for the 1625 nm and 1650 nm wavelength range options.
- 8. Repeatability is defined after 100 cycles.

MECHANICAL SPECIFICATIONS

Dimensions in mm



ORDERING INFORMATION



ELECTRICAL SPECIFICATIONS

PARAMETER	RATING
Latching Type	non-latching
Control Type	I ² C or TTL
Vcc Voltage	12 VDC
Power Consumption	700 mW max.
Vcc Damage Threshold	15 VDC

DiCon Fiberoptics, Inc. www.diconfiberoptics.com