

MEMS MULTIMODE 2X2 ADD/DROP OPTICAL ARRAY SWITCH

DiCon's MEMS Multimode Add/Drop 2x2 Optical Array Switch allows for precise control of up to 5 Add/Drop optical switches all through a single control interface, and housed in a compact housing. The optical switches can be controlled individually or synchronously. This optical switch utilizes DiCon's proprietary MEMS technology to achieve reliable optical performance and excellent durability.

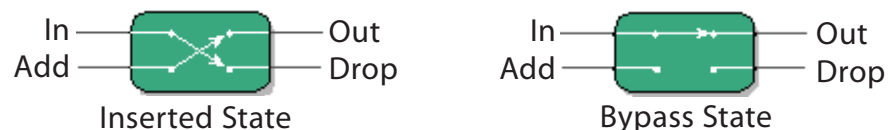


FEATURES

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

APPLICATIONS

MEMS Multimode Add/Drop 2x2 Switches are two position devices that are commonly used in Optical Add/Drop Multiplexers. In the Bypass state, the Input and Output ports are connected to each other. In the Inserted state, the Input and Drop ports are connected to each other, while at the same time the Add and Output ports are connected to each other.



MEMS MULTIMODE 2X2 ADD/DROP OPTICAL ARRAY SWITCH

OPTICAL SPECIFICATIONS¹

PARAMETER		RATING
Insertion Loss ²	Single-Band	1.0 dB max.
	Dual-Band	1.3 dB max.
Crosstalk	50 μ m	-25 dB max.
	62.5 μ m	-20 dB max.
Back Reflection		-20 dB max.
Switching Time		20 ms max.
TDL		0.30 dB max.
Repeatability ³		0.02 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		Multimode Fiber

- Specifications are without connectors.
- IL is measured at CWL, 23°C.
- Repeatability is defined after 100 cycles.

ORDERING INFORMATION

MS2 - M/2X2AD - - - - -

Product Code

MS2 MEMS Switch

Switch Configuration

M/2X2AD M 2x2 Add/Drop Array Switch (Specify M \leq 5)

Control Interface

I2C I²C
RS2 RS232

Wavelength Range

8 850 nm only
9 980 nm only
8/13 850 nm & 1310 nm

Fiber and Jacket Type

50/BF 50 μ m core, bare fiber
50/LT 50 μ m core, loose tube
62/BF 62.5 μ m core, bare fiber
62/LT 62.5 μ m core, loose tube

Connector Type

FC FC/PC
LC LC/PC
SC SC/PC
ST ST/PC
N NONE

Pigtail Length

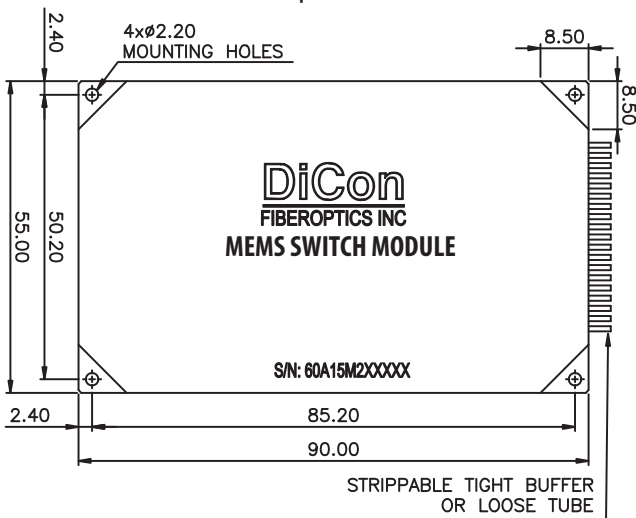
1 1 Meter
X Specify X Meters

Tolerance is +/- 10 cm

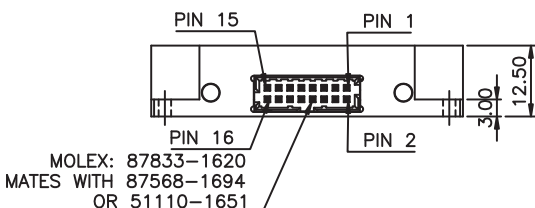
MECHANICAL DIMENSIONS

(Units: mm)

Top View



Side View



ELECTRICAL SPECIFICATIONS

PARAMETER	RATING
Latching Type	non-latching
Control Type	I ² C, RS232
Vcc Voltage	12 VDC
Power Consumption	700 mW max.
Connector Type	Molex 87833-1620