# MEMS SINGLE-MODE 2X2 ADD/DROP OPTICAL ARRAY SWITCH

DiCon's MEMS Single-mode 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.

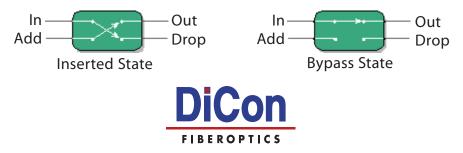


## FEATURES

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

## **APPLICATIONS**

MEMS Single-mode 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.



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# MEMS SINGLE-MODE 2X2 ADD/DROP **OPTICAL ARRAY SWITCH**

#### **OPTICAL SPECIFICATIONS<sup>1</sup>**

	RATING
Single-Band	1.0 dB max.
Dual-Band	1.2 dB max.
	-50 dB max.
tion	-50 dB max.
ïme	20 ms max.
	0.30 dB max.
	0.20 dB max.
	0.10 dB max.
У <sup>4</sup>	0.02 dB max.
	10 <sup>9</sup> cycles min.
ver	500 mW max.
emp	-5 to 70°C
пр	-40 to 85°C
	9/125 $\mu$ m single-mode
	Single-Band Dual-Band tion Time y <sup>4</sup> ver

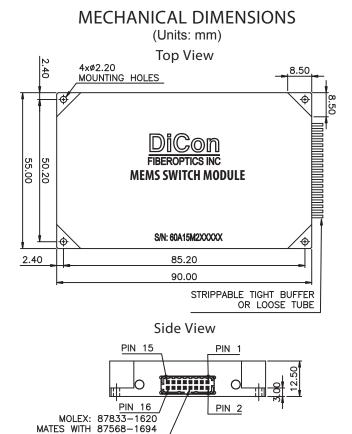
1. Specifications are without connectors.

2. IL is measured at CWL, 23°C.

3. WDL is measured in a +/- 20nm range at 23°C.

4. Repeatability is defined after 100 cycles.

OR 51110-1651



#### ORDERING INFORMATION Product Code MS2 MEMS Switch Switch Configuration M/2X2AD M 2x2 Add/Drop Array Switch (Specify M≤5) **Control Interface** 12C I<sup>2</sup>C RS2 RS232 Wavelength Range 13 1290 - 1330 nm 1530 - 1570 nm 15 16 1570 - 1610 nm 1290 - 1330 & 1530 - 1570 nm 13/151530 - 1570 & 1570 - 1610 nm 15/16 Fiber and Jacket Type 9/BF Corning SMF-28, Bare Fiber 9/TB Corning SMF-28, Tight Buffer 9/LT Corning SMF-28, Loose-tube Or other equivalent 9µm Single-mode fiber **Connector Type** FC/SPC FC/SPC FC/APC FC/APC LC/SPC LC/SPC LC/APC LC/APC SC/SPC SC/SPC SC/APC SC/APC NONE Ν Other connector options are also available **Pigtail Length** 1 1 Meter Х Specify X Meters

Tolerance is +/- 10 cm

### ELECTRICAL SPECIFICATIONS

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