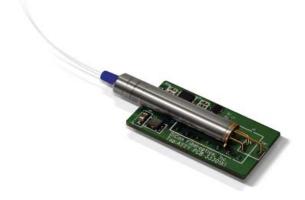
MEMS MULTIMODE ADD/DROP 2X2 SWITCH

WITH EXTERNAL PCB

DiCon's MEMS Multimode Add/Drop 2x2 Switch is based on a microelectromechanical system (MEMS) chip. The MEMS chip consists of an electrically moveable mirror on a silicon support. A voltage applied to the MEMS chip causes the mirror to rotate, which changes the coupling of light between two input fibers and two output fibers.



FEATURES

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

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 ADD/DROP 2X2 SWITCH

WITH EXTERNAL PCB

OPTICAL SPECIFICATIONS¹

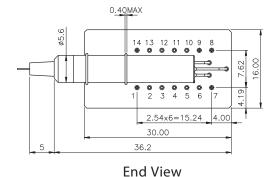
PARAMETER		RATING
Insertion	Single-Band	1.0 dB max.
Loss ²	Dual-Band	1.3 dB max.
Crosstalk	50 μm	-25 dB max.
	62.5 μm	-20 dB max.
Back Reflection		-20 dB max.
Switching Time		20 ms max.
TDL		0.30 dB max.
Repeatability ³		0.02 dB max.
Durability		10 ⁹ cycles min.
Optical Power		500 mW max.
Operating Temp		-5 to 70°C
Storage Temp		-40 to 85°C
Fiber Type		Multimode, Bare Fiber

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

MECHANICAL DIMENSIONS

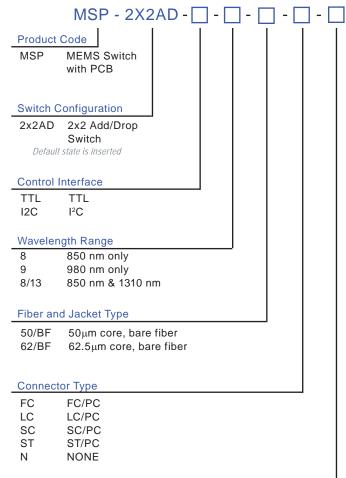
(Units: mm)

Top View



14X0.46

ORDERING INFORMATION



Pigtail Length

1 1 Meter X Specify X Meters Tolerance is +/- 0.05 m

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