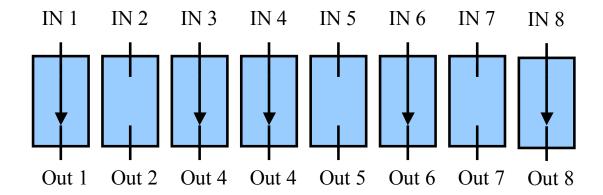
MEMS ON-OFF OPTICAL ARRAY SWITCH

DiCon's MEMS Multimode On-Off Array Optical Switch allows precise control of up to 16 On-Off optical switches all through a single control interface, and housed in a compact housing. The On-Off switches can be controlled individually or synchronously. DiCon's MEMS Multimode On-Off Optical switch has one input and one output fiber and provides the ability to turn on or off the optical signal passing through it.



FEATURES

- High Reliability
- Proven MEMS Technology
- Lifetime > 1 Billion Switch Cycles
- Controls up to 16 MEMS On/Off Optical Switches

APPLICATIONS

- Simulate Cutting of Fiber Optic Cables
- Secure Optical Communication
- Test & Measurement



MEMS MULTIMODE ON-OFF OPTICAL ARRAY

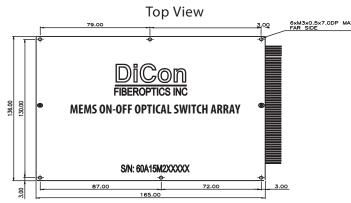
OPTICAL SPECIFICATIONS¹

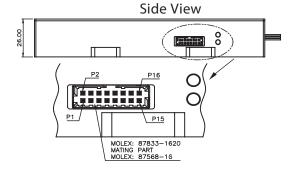
PARAMETER		RATING	
Insertion Loss ^{2,3}		0.8 dB max.	
Crosstalk	50 um	-25 dB max.	
	62.5 um	-20 dB max.	
Back Reflection		-20 dB max.	
Switching Time		30 ms max.	
TDL		0.30 dB max.	
Repeatability ⁴		0.05 dB max.	
Durability		10 ⁹ cycles min.	
Optical Power		500 mW max.	
Operating Temp		-5 to 70°C	
Storage Temp		-40 to 85°C	
Fiber Type		Mulitmode, Bare fiber	

- 1. Specifications are without connectors.
- 2. IL is measured at CWL, 23°C. In "ON" State.
- 3. IL is for single-band. Dual-band adds 0.2 dB.
- 4. Repeatability is defined after 100 cycles.

MECHANICAL DIMENSIONS

(Units: mm)





ORDERING INFORMATION

	MQ5- □- □- []- []- 2	20-[]-[]-[
Product (Code						
MQ5	MEMS Switch						
Switch Configuration							
M/1X1	M On-Off Switches (M≤16)						
Control Ir	` '						
I2C RS2	I ² C RS232						
Switch T	уре						
T O	Transparent ¹ Opaque ²						
Wavelen	gth Range						
8 9 13 8/13	850 nm only 980 nm only 1290-1330 nm 850 nm & 1290-1330 nm						
	e Isolation						
20	20 dB min.			•			
Fiber and	Jacket Type						
50/BF	50um core, bare fiber						

30/01	Journ Core, bare liber
50/LT	50um core, 900um loose tube
62/BF	62.5um core, bare fiber
62/LT	62.5um core, 900um loose tube

Connector Type

	FC	FC/5PC		
	FC/APC	FC/APC		
	SC	SC/SPC		
	SC/APC	SC/APC		
	N	NONE		
Other connectors avaible upon requet				

Pigtail Length

1	1 Meter
Χ	Specify X Meters
Talaranaa	in 1/ 10 am

- 1. Minimum IL with no power.
- 2. Off state isolation with no power.

ELECTRICAL SPECIFICATIONS

PARAMETER	RATING
Latching Type	non-latching
Control Type	I ² C or RS232
Vcc Voltage	12 VDC
Power Consumption	1 W max.
Connector Type	Molex 87833-1620