OPNETI 1x8 MEMS switch is based on MEMS technology . The component makes an opticalconnection between an optical port and either one of 8 input or output line. The highly reliable switching mechanism use integrated micromirrors and feautre below 1ms switching time and only 1.4dB insertion loss. The switch is powered by a 5V supply voltage. A 5 V TTL or CMOS drive signal is used to control the swithcing state

Features

Low insertion loss
High Crosstalk
Fast response time
Mini Size

Applications

Optical Reconfiguration
Instrumentation
Provisioning

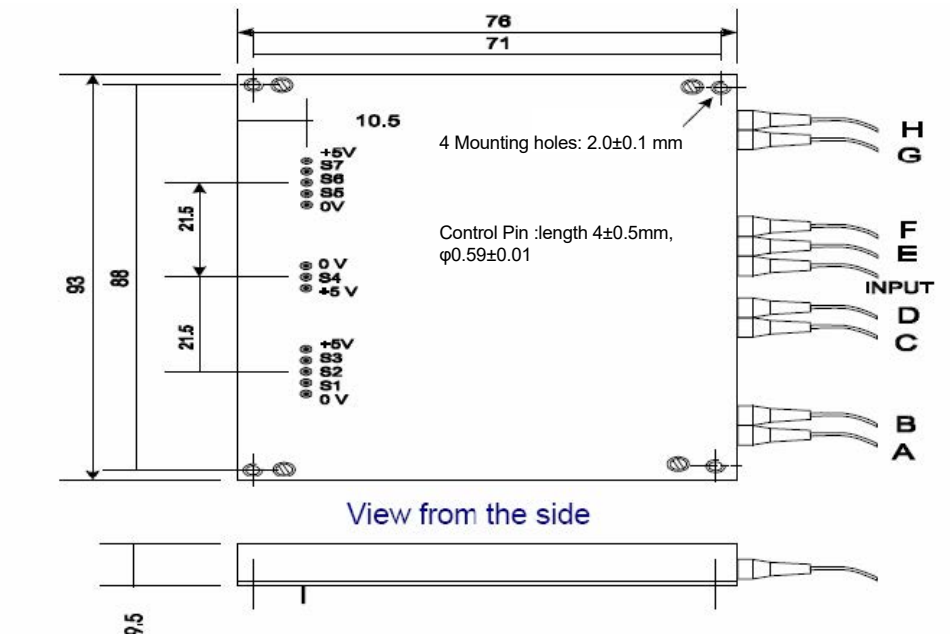
Specifications

Parameter	Single mode	Multimode
Wavelength range (nm)	1240~1640	700~1700
Insertion loss (dB)	≤2.0 (Typ 1.2)	≤2.0 (Typ 1.5)
Polarization dependent loss (dB)	≤0.12	≤0.20
Return Loss (dB)	≥ 44 (Typ 55)	≥ 35 (Typ 45)
Cross talk (dB)	≥ 60 (Typ 75)	≥ 45 (Typ 55)
Switch speed (ms)	≤1, (Typ 0.5)	≤20, (Typ 2)
Durability (cycles)	no wear out	no wear out
Fiber type	SMF-28e	50/125, 62.5/125 MM
Operating Voltage (V)	<5	<5
Power Consumption (mW)	Typ 40	Typ 40
Operation temperature(°C)	0~70 C	0~70 C
Storage temperature (°C)	-40~85	-40~85
Package Size (L x W x H) (mm)	76 x 93 x 9.5	76 x 93 x 9.5

PIN Connection

S1	*S2*	*S3*	*S4*	*S5*	*S6*	*S7*	Port
0	5	x	5	x	x	x	A
5	x	0	5	x	x	x	B
5	x	5	5	x	x	x	C
0	0	x	5	x	x	x	D
x	x	x	0	0	0	x	E
x	x	x	0	5	x	5	F
x	x	x	0	5	x	0	G
x	x	x	0	0	5	x	H

0 = 0 V (TTL or CMOS level)
5 = 5 V (TTL or CMOS level)
x = 0 V or 5 V



Ordering Information

MSW	Port Type	Wavelength	Mode	Pigtail Type	Fiber Type	Length	Connector
	1x8	1240~1640 700~1700	N=Non-Latching	900=900um loose tube	1=SMF-28e 2=50/125 3=62.5/125	1=1.0m	NE=None FA=FC/APC FC=FC/PC SA=SC/APC SC=SC/PC ST=ST/PC LC=LC/UPC XX: Specify