

MEMS Optical Switch (1x1,1x2, 2x2)

Features	
Compact Size Fast response time TTL or CMOS logic	
Application	
Protection Switching Reconfiguration Optical Subsystems	

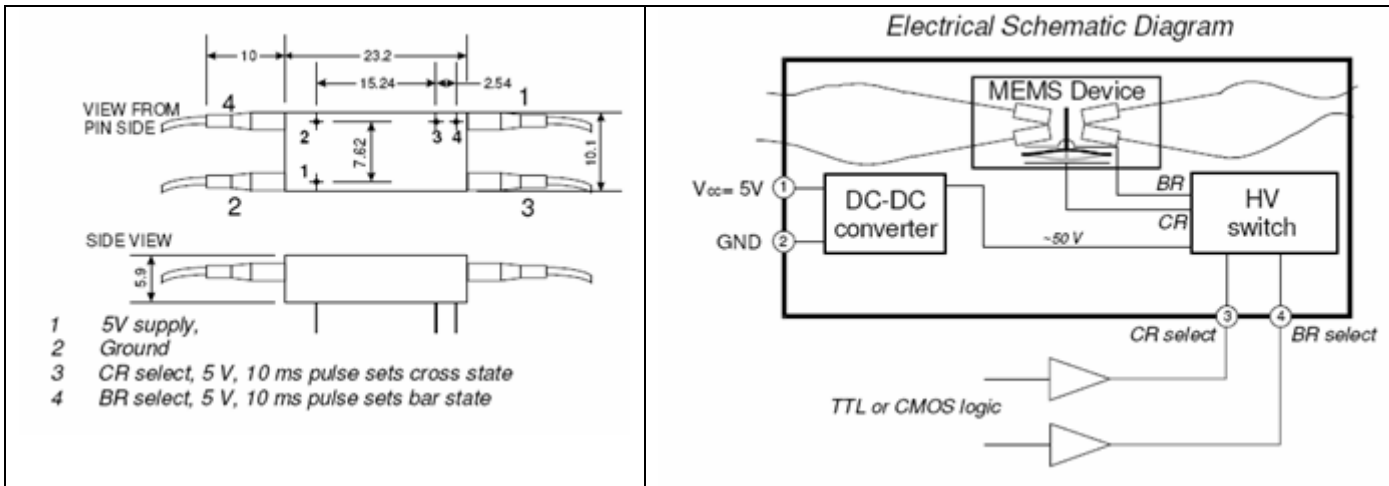
Specifications

Parameter	Single mode	Multimode
Wavelength range (nm)	1240~1640	600~1700
Insertion loss (dB)	≤1.0 (Typ 0.4)	≤1.2 (Typ 0.6)
Polarization dependent loss (dB)	≤0.07	≤0.15
Return Loss (dB)	≥ 50 (Typ 55)	≥ 30 (Typ 40)
Cross talk (dB)	≥ 60 (Typ 75)	≥ 40 (Typ 60)
Switch speed (ms)	≤1, (Typ 0.5)	≤20, (Typ 2)
Repeatability (dB)	≤0.002	≤0.005
Durability (cycles)	10 ⁹	10 ⁹
Fiber type	SMF-28e	50/125, 62.5/125 MM
Operation temperature(°C)	0~70	
Storage temperature (°C)	-40~70	
Package Size (L x W x H) (mm)	23.2 x 10.1 x 5.9	

Integrated Drive

Supply Voltage Vcc (PIN 1) (V)	3.2 ~ 5.25 (Typ. 3.3 or 5.)
Current Consumption Lcc (PIN 1) (mA)	≤45, (Typ. 1)
Logic Level low(PINS 3,4) (V)	0.3
Logic Level High(PINS 3,4) (V)	3.0
Selection Pulse Width (ms)	≥2. Typ 10.

Package Dimensions



Ordering Information

MSW	Port Type	Wavelength	Mode	Pigtail Type	Fiber Type	Length	Connector
	1x1	850	L=Latching	250=250um bare fiber	1=SMF-28e	1=1.0m	NE=None
	1x2	1310	N=Non-Latching	900=900um loose tube	2=50/125		FA=FC/APC
	2x2	1550			3=62.5/125		FC=FC/PC
		1310/1550					SA=SC/APC
							SC=SC/PC
							XX: Specify