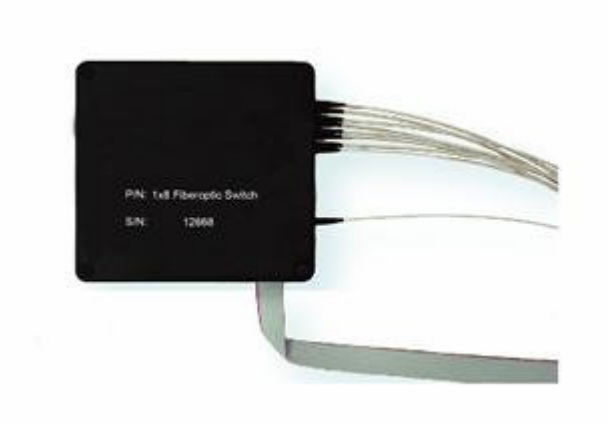
1x16 MEMs Optical Switch



The Fiberer's 1x16 mems optical switch is a very fast opto-mechanical switch based on the latest silicon MEMS technology and uses micro-mechanical mirrors to redirect the light. The switch is built by cascading 1x2 switches which are qualified according to Telcordia GR1221.

Features

High reliabilit
Low insertion loss
TTL or CMOS drive
Latching or non-latching

Applications

Optical Reconfiguration
Instrumentation
WDM

Spec and Parameter-Single-mode

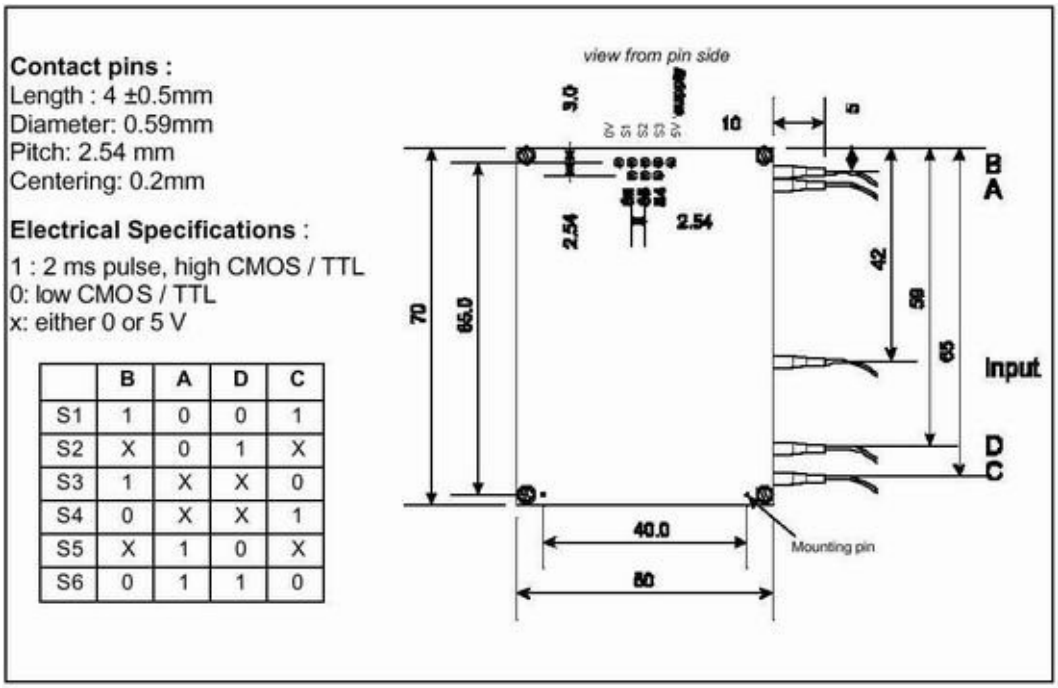
Parameter	Value
Wavelength range	1240~1640nm
Insertion loss	typ.0.7dB,max 1.2dB
Return loss	>=50 dB
Polarization dependent loss	<0.1dB
Cross talk	Typ.75dB, Max 60dB
Repeatabilit	<=0.002dB
Switch speed	<0.5ms, max 1ms
Durabilit	no wear out
Operating Voltage	<5 VDC
Power Consumption	typ 10mW, max 50mW
Operation temperature	0~70 C
Storage temperature	-40~85
Size (L x W x H)	80 x 50 x 9.5mm

Spec and Parameter-Multi-mode

Parameter	Value
Wavelength range	600~1700nm
Insertion loss	typ.1.0dB,max 2.0dB
Return loss	>=35 dB
Polarization dependent loss	<0.1dB
Cross talk	Typ.60dB, Max 45dB
Repeatabilit	<=0.002dB
Switch speed	<5ms, max 10ms
Durabilit	>1billion
Fiber type	62.5/125/900, 50/125/900
Operating Voltage	<5 VDC
Power Consumption	typ 10mW, max 50mW
Operation temperature	0~70 C
Storage temperature	-40~85C
Size (L x W x H)	70 x 50 x 9.5mm

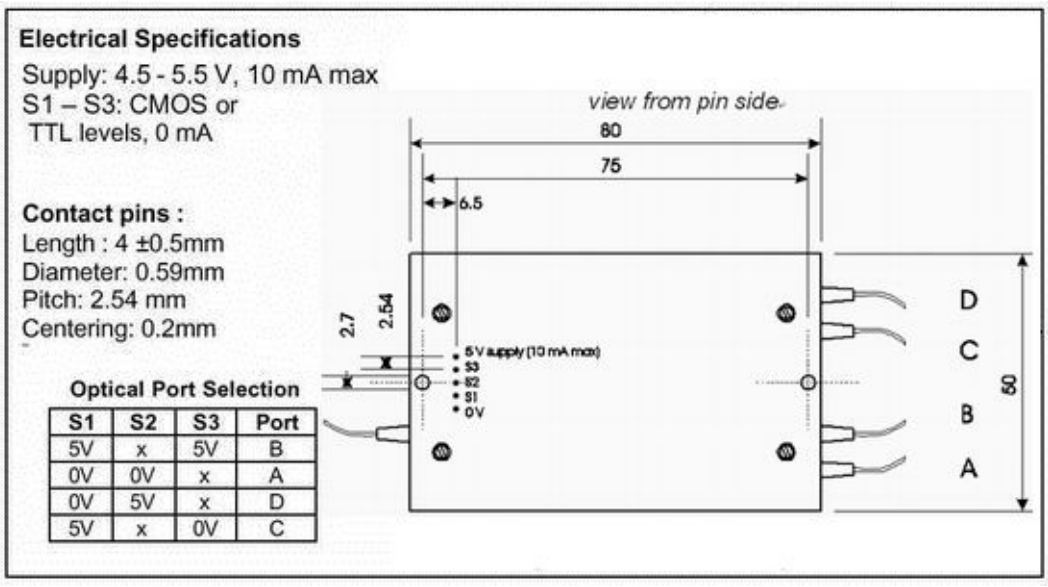
Pictures

Latching Type



	B	A	D	C
S1	1	0	0	1
S2	X	0	1	X
S3	1	X	X	0
S4	0	X	X	1
S5	X	1	0	X
S6	0	1	1	0

Non-latching Type



Information of Order to Provide

MSW	Switch channel	Latching or Non-Latching	Fiber Type	Fiber Length	Connector
	14=1x4	L=Latching	S9=SMF 900um	1=1.0m	NE=None
	18=1x8	N=Non-Latching	M5=MMF 50/125/900um	2=2.0m	FA=FC/APC
	110=1x10		M6=MMF 62.5/125/900um		FC=FC/PC
	112=1x12				SA=SC/APC
	113=1x13				SC=SC/PC
	116=1x16				ST=ST/PC
					LA=LC/APC
					LC=LC/PC
					XX=others