1x8 Mechanical SM Fiberoptic Switch



ACP's MS Series switch connects optical channels by redirecting an incoming optical signal into a selected output fiber. This is achieved using a patent pending opto-mechanical proprietary configuration and activated via an electrical control signal. The Switch offers ultra-high reliability and fast switching speed as well as bi-directional performance. The MS fiberoptic switches are true switching solution for optical networking applications.

PERFORMANCE SPECIFICATIONS

Parameter	Specifications	
Operating Windows	Single	Dual
Operating Wavelength	1260 ~ 1360 or 1510 ~ 1560	1310 /1550 ± 30nm
Grade	P	P
Insertion Loss	≤ 1.5dB	≤ 1.8dB
Wavelength Dependent Loss	≤ 0.25dB	≤ 0.30dB
Polarization Dependent Loss	≤ 0.20dB	
Channel Crosstalk	≥ 50dB	
Return Loss	≥ 55dB	
Repeatability	± 0.05dB	
Switching Speed (Max.)	≤ 25ms	
Power Supply	+5VDC Voltage: 5V +5DC Current: ≤ 200mA +3.3VCD Voltage: 3.3V	
Digital Interface Logic	CMOS (3.3V)	
Durability (Cycles)	10Million	
Optical Power	≤ 300mW	
Operating Temperature	0 to +70°C	
Storage Temperature	- 40 to +85°C	
Package Dimensions (LxWxH)	86x80x20	

All values referenced are without connector.

FEATURES

Unmatched Low Cost

Low Insertion Loss

High Channel Isolation

High Stability and Reliability

Epoxy Free Optical Path

Latching or Non-Latching

APPLICATION

Optical Network Protection/ Restoration

Optical Signal Routing

Configurable Optical Add/Drop

Transmitter & Receiver Protection

Network Test Systems

Instrumentation

≤ 10ms

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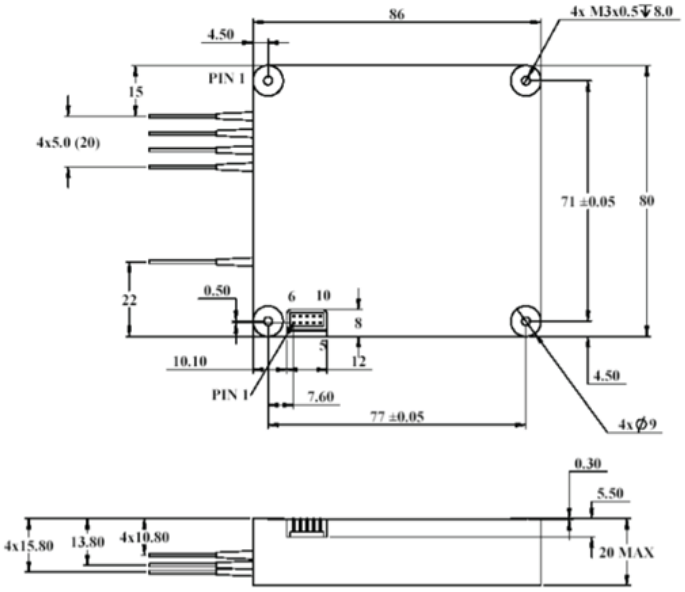
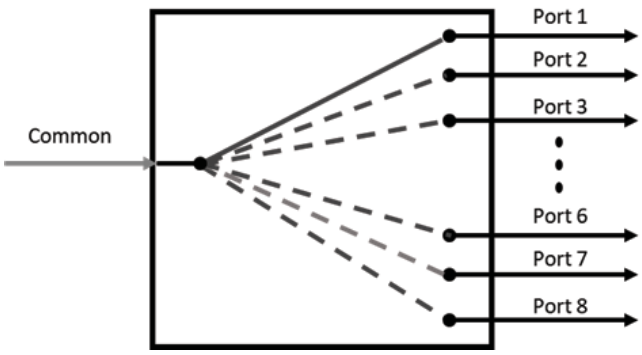
MECHANICAL DIMENSIONS



PORT CONFIGURATIONS



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OPTICAL PATH AND DATA PIN CONFIGURATION

Data Input	D0	0	1	0	1	0	1	0	1
	D1	0	0	1	1	0	0	1	1
	D2	0	0	0	0	1	1	1	1
Output	Port#	1	2	3	4	5	6	7	8

ELECTRICAL PIN CONFIGURATIONS

Pin #	1	2	3	4	5	6	7	8	9	10
Name	+5V	GND	D0	D1	D2	Strobe	Busy	Error	GND	+3.3V

ORDERING INFORMATION

MS										
	Option	Grade	Operating Wavelength	Port	Fiber Type*	Pigtail Style	Fiber Length	In Connector	Out Connector
	L=Latching	P=P Grade	31=1260 ~ 1360nm 55=1510 ~ 1610nm 3155=1310/1550nm	108=1x8	2=SMF-28 Ultra (G.657.A1) 3=ClearCurve ZBL(G.657.B3)	1=Bare fiber 2=900um loose tube	05=0.5m 10=1.0m . . . 20=2.0m	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC/UPC 7=LC/APC	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC/UPC 7=LC/APC

*1=SMF-28(G.652) is available upon request.