



1x2 Mechanical MM Fiberoptic Switch

ACP's MMS 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	850±40, 1310±40 or 1550±40nm		850/1310±30 or 1310/1550±30nm	
Grade	P	A	P	A
Insertion Loss	≤ 0.80dB	≤ 1.0dB	≤ 1.0dB	≤ 1.2dB
Wavelength Dependent Loss	≤ 0.25dB		≤ 0.30dB	
Channel Crosstalk	≥ 35dB			
Return Loss	≥ 35dB			
Switching Speed (Typ.)	4ms			
Switching Speed (Max.)	≤ 10ms			
Operating Voltage	5V			
Durability (Cycles)	10Million			
Optical Power	≤ 500mW			
Operating Temperature	0 to +70°C			
Storage Temperature	- 40 to +85°C			
Package Dimensions (LxWxH)	V Package: 32.76.x12.6x11.0			

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

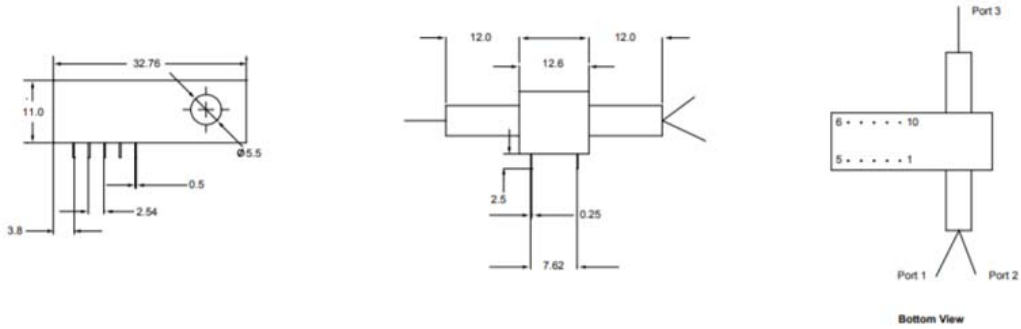
APPLICATION

- Optical Network Protection/ Restoration
- Optical Signal Routing
- Configurable Optical Add/Drop
- Transmitter & Receiver Protection
- Network Test Systems
- Instrumentation

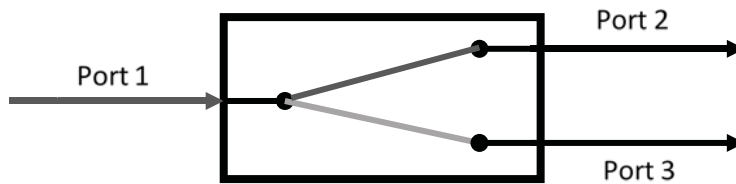
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MECHANICAL DIMENSIONS

V Package



PORT CONFIGURATIONS



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OPTICAL PATH AND ELECTRICAL PIN CONFIGURATION

Optical Path		Port 1 to Port 2		Port 1 to Port 3	
Electrical Drive	Non-Latching	Pin 1	Pin 10		
	Latching	Pin 1	Pin 5	Pin 6	Pin 10
		V+	GND	GND	V+
Sensor Status	Non-Latching and Latching	Pin 2-3, Pin 8-9 Open		Pin 2-3, Pin 8-9 Close	
		Pin 3-4, Pin 7-8 Close		Pin 3-4, Pin 7-8 Open	

ELECTRICAL SPECIFICATIONS

Parameter	Min.	Typ.	Max.	Unit
Switch Voltage	4.5	5.0	5.5	V
Switch Current	≥ 40			mA
Pulse Duration	≥ 25			ms

ORDERING INFORMATION

MMS										
Option	Grade	Operating Wavelength	Port	Package	Fiber Type	Pigtail Style	Fiber Length	In Connector	Out Connector	
L=Latching	P=P Grade	85=850nm	102=1x2	V=V Package	A=50/125	1=Bare fiber	05=0.5m	0=None	0=None	
N=Non-Latching	A=A Grade	31=1310nm			B=62.5/125	2=900um loose tube	10=1.0m	1=FC/APC	1=FC/APC	
		55=1550nm						2=FC/PC	2=FC/PC	
		8531=850/1310nm							3=SC/APC	3=SC/APC
		3155=1310/1550nm							4=SC/PC	4=SC/PC
							20=2.0m	5=ST	5=ST	
								6=LC/UPC	6=LC/UPC	
								7=LC/APC	7=LC/APC	