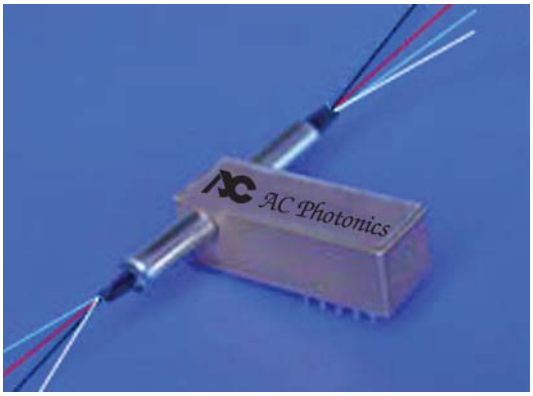
DUAL 2x2 Multi-mode Fiberoptic Switch

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



Features

- Unmatched Low Cost
- Low Insertion Loss
- Latching or Non-Latching
- High Channel Isolation
- Highly Stable and Reliable
- Epoxy Free Optical Path

Applications

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

Performance Specifications

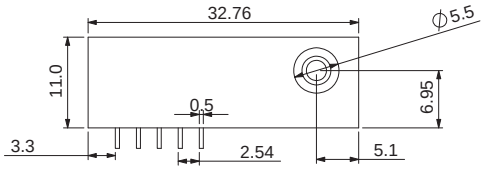
Parameter	Specification	
Operating Wavelength (nm)	830±40,1310±40 or 1550±40	850/1310, 850/1550, 1310/1550
Insertion Loss (dB)	≤1.0(P Grade), ≤1.2(A Grade)	≤1.2(P Grade), ≤1.4(A Grade)
Wavelenght Dependent Loss(WDL)(dB)	≤0.25	≤0.30
PDL (dB)	≤0.05	
Cross Talk (dB)	≥35	
Return Loss (dB)	≥35	
Switching Speed (ms)	≤10 (4 typ.)	
Drive voltage (V)	5 ±10%	
Power Handling(mW)	500	
Durability (Cycles)	10 Million	
Operating Temperature (°C)	0~+70	
Storage Temperature (°C)	-40~+85	
Dimensions (mm)	32.76x12.6x11.0(or custom size)	

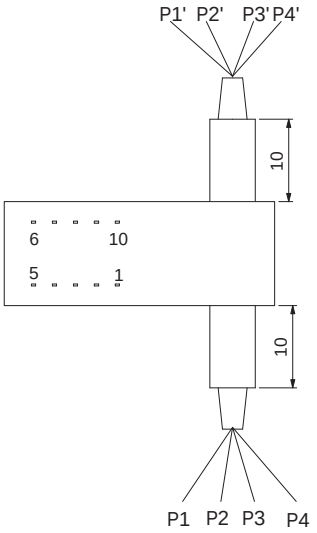
Specifications may change without notice

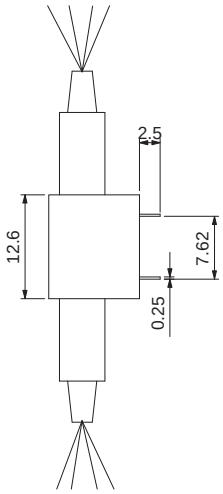
Ordering Information

2MMS☐	☐ ☐	☐☐☐☐	☐	☐	☐	☐ ☐
Option	**Operating Wavelength**	**Port**	**Grade**	**Fiber Type**	**Pigtail Style**	**In/Out Connector**
L= Latching N=Non Latching	13= 1310±40nm 15=1550±40nm 85=850±40nm 35=1310/1550nm 38=1310/850nm 58=1550 /850 nm	0202= 2x2 (Normal) B2P2= 2x2 (Bypass)	P=P Grade A=A Grade	1=50/125 multi-mode 2=62.5/125 multi-mode	1=Bare Fiber 2=900um Jacket.	0=None 1=FC/APC 2=FC/PC 3=SC/APC 4=SC/PC 5=ST 6=LC 7=Duplex LC

Dimensions (mm)





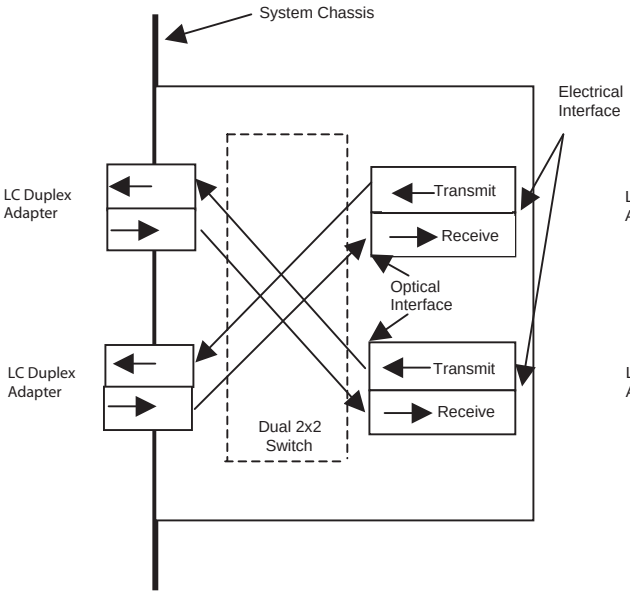


Electric Configuration

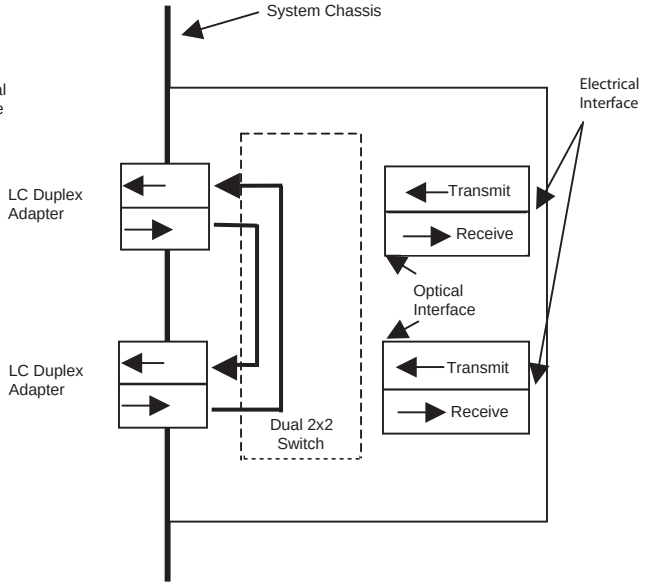
Optical Path		Port1-3' and Port2-4'		Port1-1', Port2-2', Port3-3' and Port4-4'	
Electric Drive	Non-Latching	Pin1	Pin10		
	Latching	Pin1	Pin5	Pin6	Pin10
		V+	GND	GND	V+
Status Sensor	Non-Latching and Latching	Pin2-3, Pin8-9 Open		Pin2-3, Pin8-9 Close	
		Pin3-4, Pin7-8 Close		Pin3-4, Pin7-8 Open	

Parameter	Typical	Min	Max	Unit
Switch Voltage	5	4.5	5.5	V
Switch Current	>40			mA
Pulse Duration	>25			ms

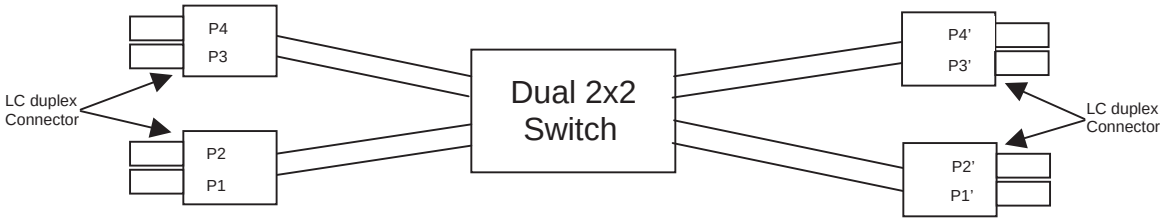
Application



Normal Mode



Bypass Mode



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