

2x2 Mechanical PM Fiberoptic Switch

(Latching or Non-Latching)



ACP's PMS 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 configuration and activated via an electrical control signal. At the same time, the polarization state of the signal is preserved.

PERFORMANCE SPECIFICATIONS

Parameter	Specifications
Operating Wavelength	1310 ± 40nm 1550 ± 40nm
Insertion Loss	0.8dB (Typ.), 1.2 dB (Max.)
Wavelength Dependent Loss	≤ 0.20dB
Extinction Ratio	≥ 18dB (20dB Typ.)
Channel Cross Talk	≥ 60dB
Return Loss	≥ 55dB
Repeatability	± 0.02dB
Switching Speed (Typ.)	≤ 10ms (Min.)
Operating Voltage	4.5 - 5V
Durability (Cycles)	10 Million
Optical Power	500mW
Operating Temperature	0 to +70°C
Storage Temperature	-40 to +85°C
Package Dimensions	L29mm x W15mm x H10mm

FEATURES

- Unmatched Low Cost
- Low Insertion Loss
- High Channel Isolation
- High Stability and Reliability
- Epoxy Free Optical Path
- Latching or Non-Latching

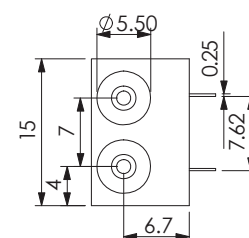
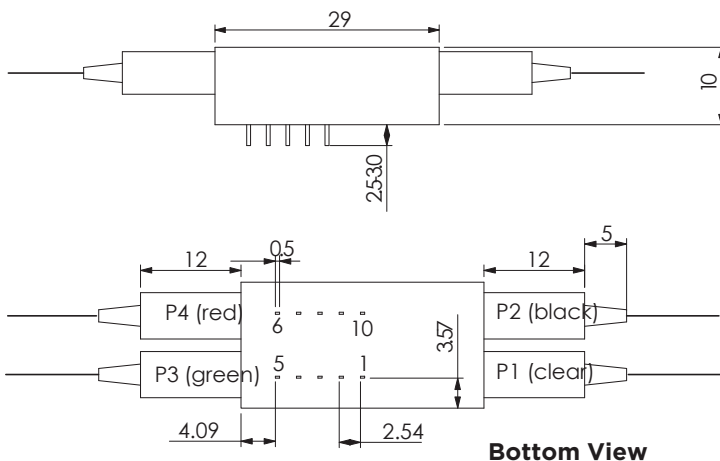
APPLICATION

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

Note:

- The PM fiber and the connector key are aligned to the slow axis.
- The ER is for fiber ≤ 0.75 meter. Increase fiber length can decrease the ER.
- For devices with connectors, insertion loss will be 0.3dB higher, return loss will be 5dB lower, and extinction loss will be 2dB lower

MECHANICAL DIMENSIONS



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ELECTRICAL PIN CONFIGURATION

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

Parameter	Typical	Minimum	Maximum
Switch Voltage	5V	4.5V	5.5V
Switch Current		> 40mA	
Pulse Duration		> 25ms	

ORDERING INFORMATION

Option	Operating Wavelength	Port	Grade	Pigtail Style	Fiber Length	In/Out Connector	Working axis
L = Latching N = Non-Latching	15 = 1550nm 13 = 1310nm	0202 = 2x2	P = P Grade	1 = Bare Fiber 2 = 900um Jacket	1 = 0.75m 2 = 1.0m 3 = 1.5m S = Specify	0 = None 1 = FC/APC 2 = FC/PC 3 = SC/APC 4 = SC/PC 5 = ST 6 = LC/UPC 7 = LC/APC	S = Slow axis working F = Fast axis working