

1x2 Solid-State SM Fiberoptic Switch (Single Side)



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

PERFORMANCE SPECIFICATIONS

Parameter	Specifications	
Port Configuration	Unidirectional	Bidirectional
Operating Wavelength	1525 ~ 1565 or Custom Wavelengths	
Insertion Loss	$\leq 1.1\text{dB}$	$\leq 1.2\text{dB}$
Polarization Dependent Loss (PDL)	$\leq 0.20\text{dB}$	$\leq 0.30\text{dB}$
Polarization Mode Dispersion (PMD)	$\leq 0.20\text{ps}$	$\leq 0.30\text{ps}$
Channel Crosstalk	$\geq 40\text{dB}$	$\geq 30\text{dB}$
Return Loss	$\geq 40\text{dB}$	$\geq 30\text{dB}$
Repeatability	$\pm 0.01\text{dB}$	
Switching Speed (Regular)	200 ~ 400us	
Switching Speed (Ultra-fast)	10 ~ 30us	
Durability (Cycles)	≥ 100 Billion	
Optical Power	$\leq 500\text{mW}$	
Operating Temperature	-5 to $+70^{\circ}\text{C}$	
Storage Temperature	-40 to $+85^{\circ}\text{C}$	
Package Dimensions (LxWxH)	28x7.8x9.5	

All values referenced are without connector.

FEATURES

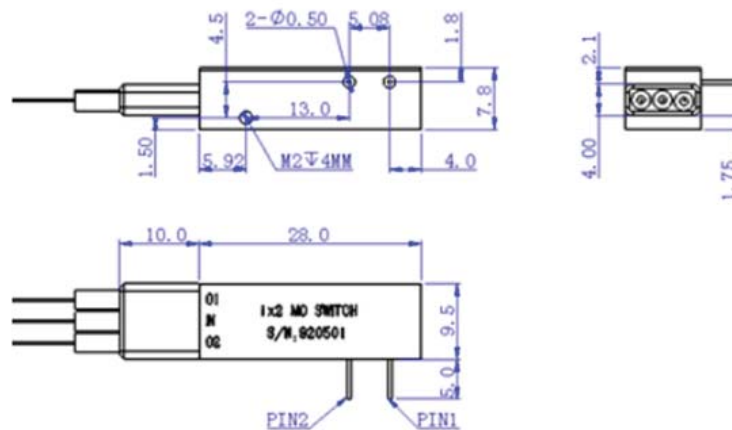
- Fast Switching Speed
- Ultra-High Reliability
- Latching
- Highly Repeatability
- Low Cost

APPLICATION

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

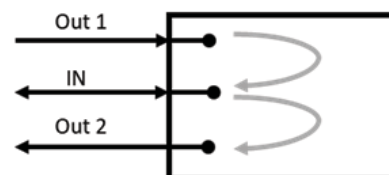
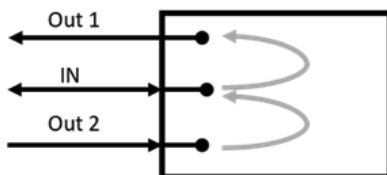
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MECHANICAL DIMENSIONS



PORT CONFIGURATIONS

Unidirectional



Bidirectional

