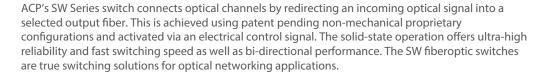




1x2 Solid-State PM Fiberoptic Switch





Parameter	Specifications
Port Configuration	Unidirectional Bidirectional
Operating Wavelength	$1525 \sim 1565 \ or \ Custom \ Wavelengths$
Insertion Loss	≤ 1.1dB
Wavelength Dependent Loss (WDL)	≤ 0.30dB
Temperature Dependent Loss (TDL)	≤ 0.30dB
Channel Crosstalk	≥ 40dB
Return Loss	≥ 40dB
Extinction Ratio (ER)	≥ 18dB
Repeatability	± 0.01dB
Switching Speed (Regular)	50 ~ 200us
Switching Speed (Ultra-fast)	5 ~ 20us
Durability (Cycles) (Regular)	≥100 Billion
Durability (Cycles) (Ultra-fast)	≥1,000 Billion
Optical Power	≤ 500 mW
Operating Temperature	-5 to +70°C
Storage Temperature	- 40 to +85°C
Package Dimensions (LxWxH)	32.8x8.0x7.0mm (Including end cap 51.8x8.0x7.0mm)

All values referenced are without connector.

FEATURES

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

APPLICATION

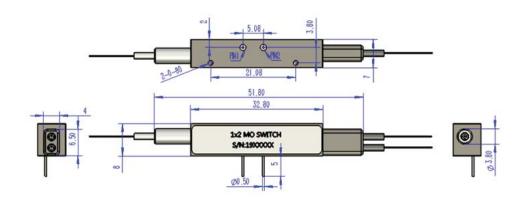
Optical Network Protection/ Restoration
Optical Signal Routing
Configurable Optical Add/Drop
Transmitter & Receiver Protection
Network Test Systems
Instrumentation





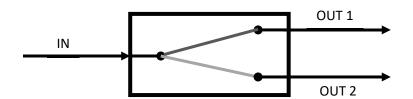
1x2 Solid-State PM Fiberoptic Switch

MECHANICAL DIMENSIONS

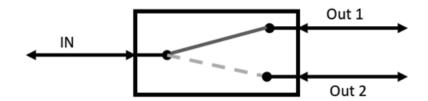


PORT CONFIGURATIONS

Unidirectional



Bidirectional









1x2 Solid-State PM Fiberoptic Switch

OPTICAL PATH AND ELECTRICAL PIN CONFIGURATION

	Unidirectional Configuration					
Pin 1	Pin 2	Optical Path				
1 (Voltage = Vcc)	0 (Voltage = GND)	IN → OUT 1				
0 (Voltage = GND)	1 (Voltage = Vcc)	$IN \rightarrow OUT 2$				

	Bidirectional Configuration				
Pin 1	Pin 2	Optical Path			
1 (Voltage = Vcc)	0 (Voltage = GND)	$IN \leftrightarrow OUT 1$			
0 (Voltage = GND)	1 (Voltage = Vcc)	IN ↔ OUT 2			

ELECTRICAL SPECIFICATIONS

Parameters	Unit	Specifications			
		Regular	Ultra-fast		
Switching Speed	us	50 ~ 200	5 ~ 20		
Switching Voltage (Vcc)	V	3 ± 5%	5 ~ 6		
Switching Current	mA	≤ 100	≤ 350*		
Pulse Width (Typical)	us	1,000	20		
Claim Frequency	Hz	≤ 800	≤ 3,000		

^{*}To avoid damage for ultra-fast operation please set the current limit below 800mA when the power supply voltage is set to $6 \sim 7V$.

ORDERING INFORMATION

SS									
Configuration	Switching Speed	Operating Wavelength	Port	Fiber Type	Pigtail Style	Fiber Length	In Connector	Out Connector	Working axis
U=Unidirectional B=Bidirectional	1=50 ~ 200us 2=5 ~ 20us	55=1525 ~ 1565nm Custom	102=1x2	M=PM1310 N=PM1550	1=Bare fiber 2=900um loose tube	07=0.75m 10=1.0m	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	S=Slow axis B=Both axis F=Fast axis