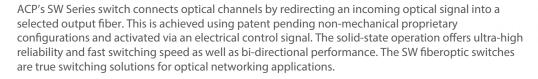




1x2 Solid-State SM Fiberoptic Switch (Two Sides)





Parameter	Specifications	
Port Configuration	Unidirectional	Bidirectional
Operating Wavelength	1525 ~ 1565 or Custom Wav	elengths elengths
Insertion Loss	≤ 1.0dB	≤ 1.1dB
Polarization Dependent Loss (PDL)	≤ 0.20dB	≤ 0.30dB
Polarization Mode Dispersion (PMD)	≤ 0.20ps	≤ 0.20ps
Channel Crosstalk	≥ 40dB	≥ 40dB
Return Loss	≥ 40dB	≥ 40dB
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	≤ 500mW	
Operating Temperature	-5 to +70°C	
Storage Temperature	- 40 to +85°C	
Package Dimensions (LxWxH)	32.8x8x7mm (Including e	end cap 51.8x8x7mm)

All values referenced are without connector.



FEATURES

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

APPLICATION

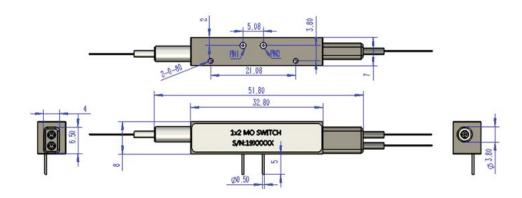
Optical Network Protection/ Restoration
Optical Signal Routing
Configurable Optical Add/Drop
Transmitter & Receiver Protection
Network Test Systems
Instrumentation





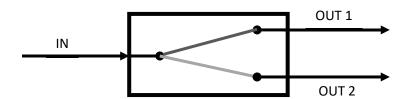
1x2 Solid-State SM Fiberoptic Switch (Two Sides)

MECHANICAL DIMENSIONS

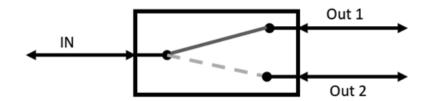


PORT CONFIGURATIONS

Unidirectional



Bidirectional







1x2 Solid-State SM Fiberoptic Switch (Two Sides)

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 ↔ 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 ~ 7.5		
Switching Current	mA	≤ 100	≤ 350		
Driving Mode		Voltage or Pulse	Pulse		
Pulse Width (Typical)	us	1,000	200 ¹⁾		
Claim Frequency	Hz	≤ 800	≤ 3,000 ²⁾		

^{1.} The recommended pulse width < 200 μs . To operate 20 μs operation a customer must apply 7V.

ORDERING INFORMATION

SS								
Configuration	Switching Speed	Operating Wavelength	Port	Fiber Type*	Pigtail Style	Fiber Length	In Connector	Out Connector
U=Unidirectional B=Bidirectional	1=50 ~ 200us 2=5 ~ 20us	55=1525 ~ 1565nm Custom	102=1x2	2=SMF-28 Ultra (G.657.A1) 3=ClearCurve ZBL(G.657.B3)	1=Bare fiber 2=900um loose tube	05=0.5m 10=1.0m 20=2.0m	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

^{*1=}SMF-28(G.652) is available upon request.

^{2.} When the switch is used for high-frequency (2 ~ 3KHz) switching, do not use it for a long time. If you want to use this for a long time at high frequency, it is recommended to use a cooling device.