

Board Mount Switch

CORNING

Features and Benefits

Low Insertion Loss

Fast Switching Time

Cost Effective

Latching or Non-Latching

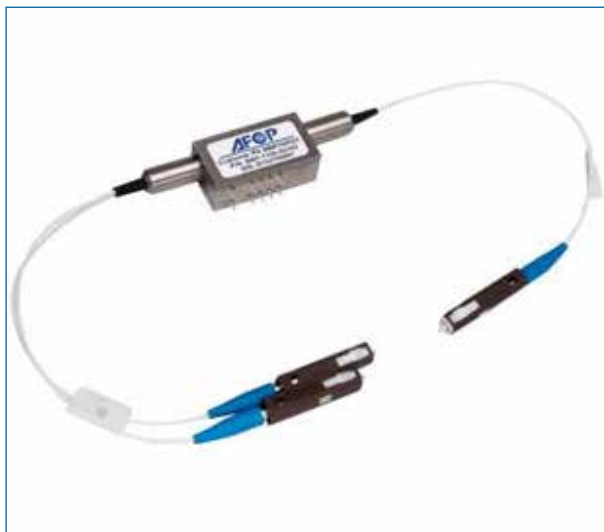
TTL or LVTTTL Drive Upon Request

Available for Multimode Fiber

Corning's Board Mount Fiber Optic Optical Switch is a single-mode component that increases network flexibility. Directly mountable on printed circuit boards, the Board Mount Switch is equipped with status contacts to provide an electrical readout of the switch position. Its packaging provides high reliability under demanding conditions. Corning's board mount switch is available in 1x1 and 1x2 configurations.

Standards

RoHS	Free of hazardous substances according to RoHS2011/65/EU
Design and Test Criteria	Product is qualified to Telcordia GR-1209-CORE and GR-1221-CORE



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Specifications¹

Parameters	1x2		
	Minimum	Typical	Maximum
Central Wavelength (λ_c)	1310, 155, and 1310 and 1550 nm		
Bandwidth	100 nm		
Configuration	1x1, 1x2		
Insertion Loss	0.6 dB		0.8 dB
Return Loss	50 dB	60 dB	
PDL	0.03 dB		0.1 dB
Switching Time		5 ms	10 ms
Cross-Talk	60 dB	70 dB	
Switching Speed			10 Hz
Switch Voltage	2.8-4.5 V		
Durability	10 mil. Cycle		
Repeatability ²	±0.01 dB		±0.02 dB
Power Handling			300 mW
Operating Temperature	0°C to +70°C		
Storage Temperature	-40°C to +85°C		

Notes:
¹ Specifications do not include connector loss
² Repeatability measured at room temperature for 100 cycles

Shipping Package		
Packaging Dimensions	Fiber Type	Pigtail Length
56 mm (L) x 14.8 mm (W) x 9.8 mm (H)	Corning® MF-28e®	1 m (Standard)

Control Logic

Optical Path	Switch Control				Contact Status			
Pin #	1	6	7	12	4-3	4-5	9-8	9-10
Port 1-Port 2	3.3V	GND	N/A	N/A	Open	Closed	Closed	Open
Port 1 - Port 3	N/A	N/A	GND	3.3V	Closed	Open	Open	Closed
Switching Current	73.3 mA				Coil Resistance		45 ohm	

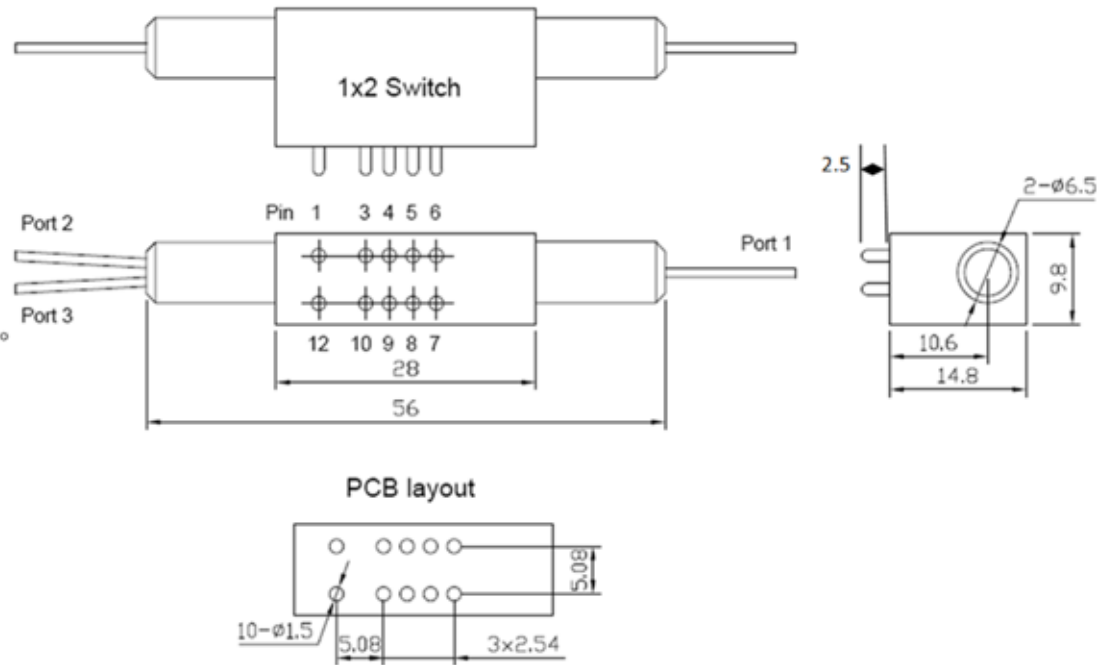
Note:

Latching 4-pin control: Pin 1, 6, 12, and 7 are used for control. When no power is applied, the switch is latched.

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Packaging Layout: Board Mount Switch



Ordering Information

Board Mount Switch

S W 1 - - 0

1 Select Port Configuration

- 1: 1x1
- 2: 1x2

2 Select Mode

- 1: Single-mode
- 2: Multimode 62.5/125 μ m
- 3: Multimode 50/125 μ m

3 Select Wavelength

- 31: 1310 nm
- 35: 1310 and 1550 nm
- 55: 1550 nm
- 85: 850 nm

4 Select Buffer

- 1: 250 μ m Bare Fiber
- 2: 900 μ m Loose Tube
- 3: Others

5 Select Connector*

- A: None
- K: LC/APC
- L: LC/PC
- P: FC/PC
- Q: FC/APC
- S: SC/PC
- T: SC/APC
- U: MU/PC
- Z: Others

6 Select Type

- 1: Latching
- 2: Non-Latching

7 Select Customization

Running number used for special types or custom made

Note:

* Specifications do not include connector loss

These part numbers are specific to Corning Optical Communications OEM Solutions Business Unit. Please contact OEM sales at +1-408-736-6900 or oesales@corning.com and visit www.corning.com/opcomm/oem for sales support.



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