

# Miniature Opto-Mechanical (MOM) Switch

CORNING

## Features and Benefits

Cost-Effective Solution

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Fast Switching Time

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Ultra Low Loss

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Latching Configuration

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Corning's miniature opto-mechanical (MOM) fiber optic switch is a single-mode or multimode component that increases network flexibility. Directly mountable on printed circuit boards, the MOM's switch is equipped with status contacts to provide an electrical readout of the switch position. Its packaging provides high reliability under demanding central office conditions. Corning's MOM Switch is available in 1x2 and 2x2 configurations.

## Standards

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



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## Specifications <sup>1</sup>

Parameters	1x2			2x2		
	Minimum	Typical	Maximum	Minimum	Typical	Maximum
Central Wavelength ( $\lambda_c$ )	1310, 155, and 1310 and 1550 nm					
Bandwidth	100 nm					
Insertion Loss		0.3 dB	0.6 dB		0.6 dB	0.8 dB
Return Loss	50 dB	60 dB		50 dB	60 dB	
PDL		0.05 dB	0.10 dB		.05 dB	0.10 dB
Switching Time		8 ms	10 ms		8 ms	10 ms
Cross-Talk	60 dB			60 dB		
Switching Speed			10 Hz			10 Hz
Durability	10 mil. Cycle			10 mil. Cycle		
Repeatability <sup>2</sup>		$\pm 0.02$ dB	$\pm 0.05$ dB		$\pm 0.02$ dB	$\pm 0.05$ dB
Power Handling			300 mW			300 mW
Operating Temperature	0°C to +70°C					
Storage Temperature	-40°C to +85°C					

### Notes:

<sup>1</sup> Specifications do not include connector loss

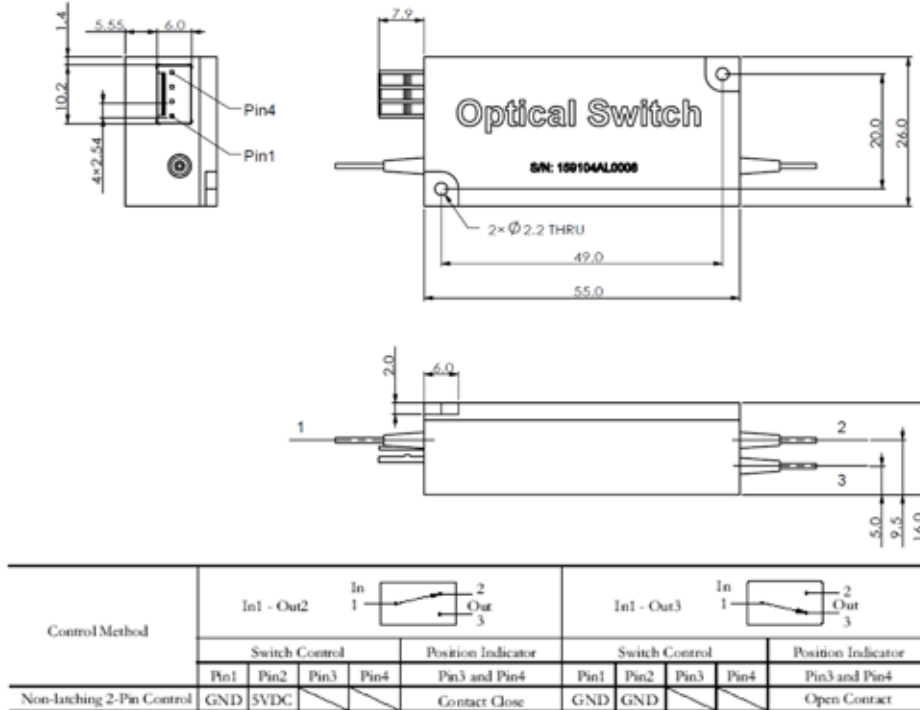
<sup>2</sup> Repeatability measured at room temperature for 100 cycles

Shipping Package		
Packaging Dimensions	Fiber Type	Pigtail Length
55 mm (L) x 26 mm (W) x 16 mm (H)	Corning® MF-28e®	1 m (Standard)

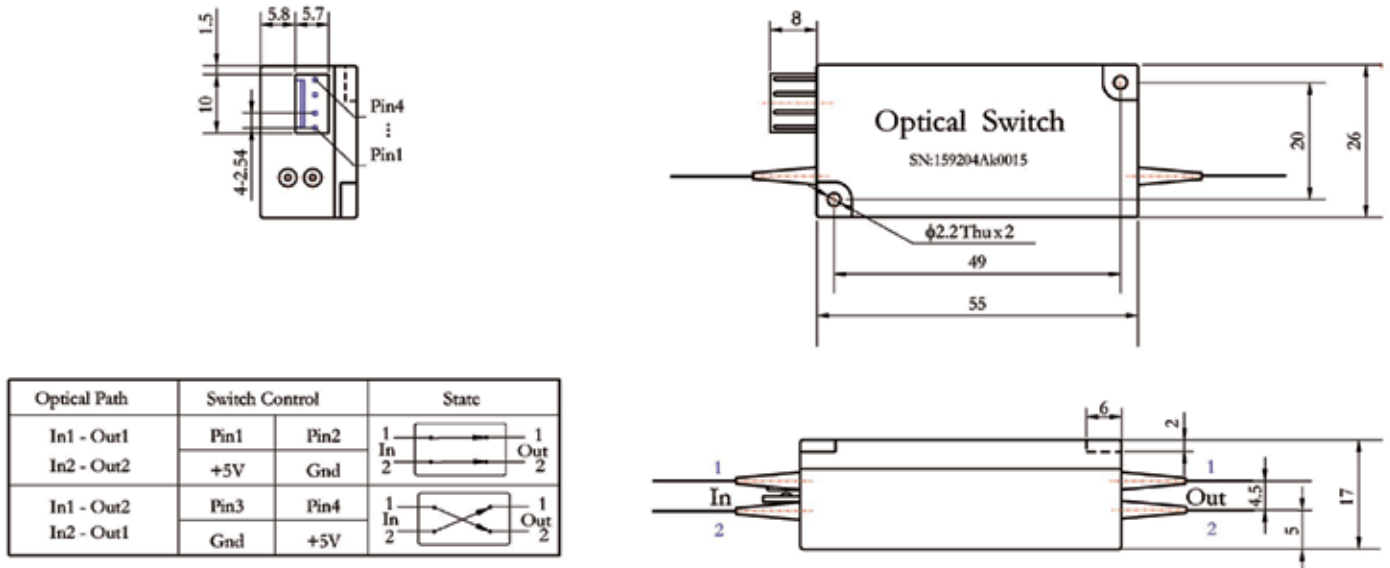
# Miniature Opto-Mechanical (MOM) Switch



## Package Layout: 1x2 MOM Switch



## Package Layout: 2x2 MOM Switch



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## Ordering Information

### Miniature Opto-Mechanical (MOM) Switch

S W 1 -     -    0

1 2 3 4 5 6 7

#### 1 Select Port Configuration

- 1: 1x2
- 2: 2x2

#### 2 Select Mode

- 1: Single-mode
- 2: Multimode 62.5/125  $\mu\text{m}$
- 3: Multimode 50/125  $\mu\text{m}$

#### 3 Select Wavelength

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

#### 4 Select Buffer

- 1: 250  $\mu\text{m}$  Bare Fiber
- 2: 900  $\mu\text{m}$  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 oemsales@corning.com and visit [www.corning.com/opcomm/oem](http://www.corning.com/opcomm/oem) for sales support.**

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Spec Sheet CAH-150\_AEN

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