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Optical Switch MEMS – OSSM Series



Key Features

- Excellent repeatability
- Exceptional lifetime with no degradation
- Simple and easy GUI
- Multiple configurations available
- RS-232 and Ethernet SCPI Interface – GPIB optional

Overview

The **PhotonCom Optical Switch MEMS – OSSM Series** uses a solid-state MEMS optical core to rapidly and effectively switch light from a common path to one of multiple output paths with low insertion loss and high repeatability. This programmable switch can be controlled using the front panel keys, via RS-232, Ethernet or through simple web interface.

The **OSSM (Optical Switch Single-Mode) Series** is offered in a compact 1U to 4U standard 19" rackmount chassis. Its switching system allows for a longer operational life, as well as reduces risk of downtime associated with any electromechanically driven assembly. It is an affordable solution for replacing aging electromechanical switches.

Applications

- Components manufacturing
- Multi-unit testing
- Measurement and Instrumentation
- Research and Development
- Telecommunications environment

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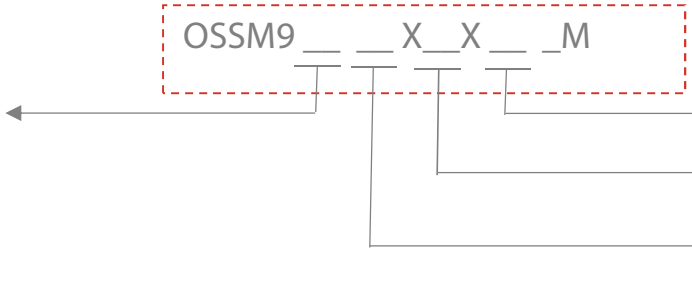
Optical Specifications (including connectors)

Wavelength range	1260 nm to 1640 nm	
Insertion loss	1.2 dB typical, < 2.5 dB maximum	(Value at 25 °C)
Crosstalk	-75 dB typical, -60 dB maximum	
Return Loss	35 dB with straight connector, 50 dB with angled connector	
Switching time (adjacent channels)	180 ms typical	
Repeatability (after 100 cycles)	0.002 dB typical, 0.01 dB maximum	(For constant temperature and polarization)
Polarization Dependent Loss	0.05 dB typical, 0.12 dB maximum	
Durability	Over 1 billion cycles without degradation	
Maximum input optical power *	27 dBm (500 mW)	
Fiber Type	Single-Mode 9/125 µm	

> Product specifications and descriptions provided in this document are subject to change without notice

* MEMS products are sensitive to short wavelengths; using any visible light source higher than 3mW could **permanently damage** the product and void the warranty

Ordering information



Connector Type:
FC: FC / UPC
FA: FC / APC
SC: SC / UPC
SA: SC / APC

 # Output Channels:
4-96

 # Input Channels:
1-2

 # Switches:
1-4

Example: OSSM9FA1X1X8_M

> Custom configurations are available upon request.

> Rack slot units – Switch configuration relationship examples:

1U: < 24 bulkheads: 1x1x4, 1x1x8, 1x1x16, 2x1x8, 4x1x4

2U: < 50 bulkheads: 1x1x24, 1x1x36, 1x1x16, 1x1x48, 1x2x48

3U: < 74 bulkheads: 1x1x72

4U: < 98 bulkheads: 1x1x96, 1x2x96

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