

# OFMS SERIES MULTI-MODE DUAL 1x2 OR 2x2 ADD/DROP OPTICAL FIBER SWITCHES

## OFMSMMD Series

### Product Description

Oplink's OFMS series optical fiber switches offer industry leading performance specifications with Telcordia compliant reliability. The new switch functions as two 1x2 or 2x2 Add/Drop multi-mode switches that are simultaneously switched together. The dual 1x2 or 2x2 Add/Drop switch is housed in the similar package as the Oplink OFMS series standard switches while maintaining superior optical performance.

Oplink provides customized design to meet special control and applications. Also, Oplink offers modular assemblies that integrate other components to form a full function module or subsystem.



### Performance Specification

Parameters	Symbol	Min	Typ.	Max	Unit
Switch Type		Dual 1x2 or 2x2 Bypass			
Wavelength Range	$\lambda_{op}$	850, 1310 or 1550			nm
Insertion Loss <sup>1</sup>	IL			1.0	dB
Cross-talk		35			dB
Repeatability				±0.05	dB
Return Loss	RL	30			dB
Optical Input Power				300	mW
Coil Resistance	Latching		101.2 ± 10%		Ω
	Non-latching		145 ± 10%		Ω
Switching Speed				10	ms
Durability		10 <sup>7</sup>			cycle
Cycle Rate				10	Hz
Switch Relay Type		Two coils, latching or single coil, non-latching			
Driving Voltage <sup>2</sup>			4.5 ~ 5.5		VDC
Operating Temperature	T <sub>op</sub>	0		70	°C
Storage Temperature	T <sub>sto</sub>	-40		80	°C
Fiber Type		50μm or 62.5μm core multi-mode fiber			

Notes:

1) Based on FOTP-34 method A, steady state equilibrium launch conditions. Within operating temperature range. Exclude connector insertion loss.

2) A minimum >20ms pulse is recommended for latching type of switch.

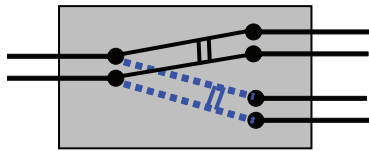
### Features

- ◆ Compact Size
- ◆ Low Insertion Loss
- ◆ Seam-seal Package
- ◆ Latching or Non-latching Configurations
- ◆ Highly Stable & Reliable

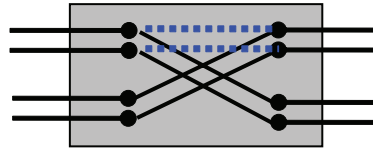
### Applications

- ◆ Node Bypass Protection
- ◆ Configurable Add/Drop

**Function Diagram**



Dual 1x2 Switch



Dual 2x2 Add/Drop Switch

**Ordering Information**

Oplink can provide a remarkable range of customized optical solutions. For detail, please contact Oplink's OEM design team or account manager for your requirements and ordering information (510) 933-7200.

