OFMS SERIES MULTI-MODE 1x1, 1x2 AND 2x2 (ADD/DROP) OPTICAL FIBER SWITCHES

OFMSMM Series

Product Description

Oplink's OFMS series optical fiber switches offer industry leading performance specifications with Telcordia compliant reliability. The multi-mode switches are designed for use in protection, channel selection, fiber ring network node bypassing and testing.

These patented opto-mechanical switches can be directly mounted on printed circuit boards and feature less than 0.5dB typical insertion loss. Oplink's unique prism design improves the switch repeatability and stability. The OFMS switches are GR-1221 and GR-1073 qualified.

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	Тур.	Мах	Unit
Wavelength Range		$\lambda_{_{\mathrm{op}}}$	770 ~ 890 and/or 1260 or 1360			nm
Insertion Loss 1		IL			1.0	dB
Cross-talk			40			dB
Repeatability					±0.05	dB
Return Loss		RL	30			dB
Optical Input Power					300	mW
Coil Resis- tance	Latching		101.2 ± 10%		Ω	
	Non-latching		145 ± 10%		Ω	
Switching Speed					10	ms
Durability			10 ⁷			cycle
Cycle Rate					10	Hz
Switch Relay Type			Two coils, latching or single coil, non-latching			
Driving Voltage ²			4.5 ~ 5.5		VDC	
Operating Temperature		T _{op}	0		70	°C
Storage Temperature		T _{sto}	-40		80	°C
Fiber Type			50μm or 62.5μm core multi-mode fiber			
Dimension	Bare fiber		P1: 41.5 (L) x 15.5 (W) x 9.0 (H)			mm
	900µm loose tube		P2: 44.0 (L) x 15.5 (W) x 9.0 (H)			mm

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

- Low Insertion Loss
- ♦ Wide Wavelength Range
- ♦ Highly Stable & Reliable
- ♦ Epoxy-Free Optical Path
- ♦ Latching or Non-latching Configurations

Applications

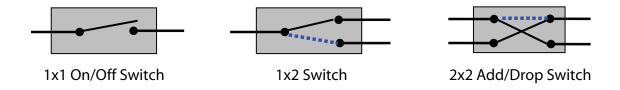
- Optical Bypass Protection
- Optical Routing
- ♦ Fiber Optic Component Test





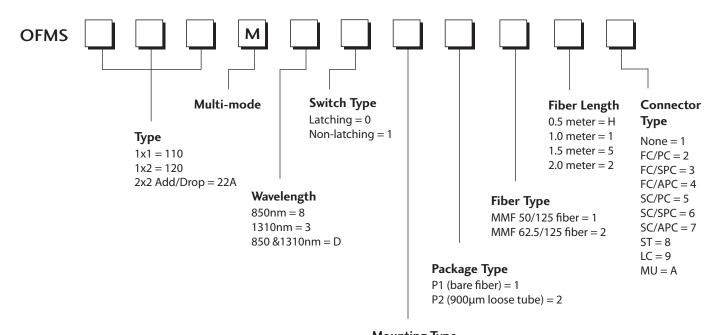
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Function Diagram



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.



Mounting Type

Dual-line pins on the bottom = 0 Single-line pins on the side with screw tabs = 1