OFMS SERIES SINGLE Mode 1x1, 1x2 and 2x2 Add/Drop Optical Fiber Switches

OFMSSM Series

Product Description

Oplink's OFMS series optical fiber switches offer industry leading performance specifications with Telcordia compliant reliability. These switches are designed for use in re-configurable optical add/drop multiplexers, optical cross-connect systems, and network switching for fault protection applications.

These patented opto-mechanical switches can be directly mounted on printed circuit boards and feature less than 0.35dB 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			Min	Тур.	Мах	Unit	
Operating Wavelength Range (λ_{Op})			1260 ~ 1360 and/or 1510 ~ 1610			nm	
Insertion Loss 1,2	Single Win- dow	1x1, 1x2		< 0.5			
		2x2AD		< 0.6		dB	
	Dual Window		< 0.8				
Wavelength	Single Window		< 0.15			dB	
Dependent Loss (within each window)	Dual Window		< 0.25				
Temperature Dependent Loss			< 0.2			dB	
Polarization Dependent Loss			< 0.1			dB	
Return Loss ²			> 55			dB	
Channel Cross-talk			> 60			dB	
Repeatability			±0.02			dB	
Switching Speed			< 10			ms	
Operating Current	Latching		75		115	mA	
	Non-latching		28		43		
Operating Voltage	Latching		3.5		4.5	VDC	
	Non-latching		4.5		5.5		
Durability			10 ⁷			cycle	
Operating Power Handling					500	mW	
Operating Temperature (T _{Op})			0		70	°C	
Storage Temperature			-40		80	°C	
Switch Relay Type			Latching or Non-latching				
Fiber Type			Corning SMF-28				
D: 3	Bare Fiber Pigtail		P1: 41.5 (L) x 15.5 (W) x 9.0 (H)			mm	
Dimension ³	900µm Loose Tube Pigtail		P2: 44 (L) x 15.5 (W) x 9.0 (H)			mm	

Features

- ♦ Telcordia qualified
- ♦ 1x1, 1x2 and 2x2 (Add/Drop)
- Compact Size
- Low Insertion Loss
- Seam-seal Package
- ♦ Latching or Non-latching Configurations
- ♦ Highly Stable & Reliable

Applications

- Network Switching
- ♦ Configurable Add/Drop
- Network Protection and Restoration
- Instrumentation, Testing and Measurement

Compliance

♦ Telcordia GR-1221 and GR-1073

Notes:

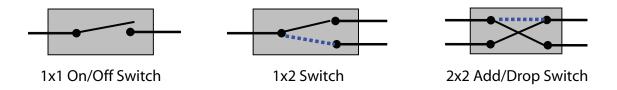
- 1) 23 °C over operating wavelength range and all SOP.
- 2) Excluding connectors.
- 3) P2 package option is for pigtail fiber with 900 μm loose tube.





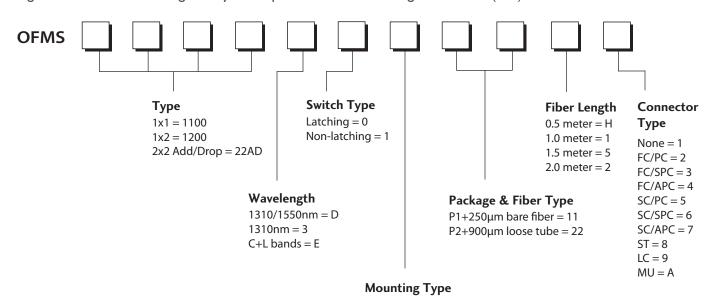
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Function Diagram



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.



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