

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

OFMS Series

Features

- ◆ Telcordia Qualified
- ◆ 1x1, 1x2 and 2x2 (Add/Drop)
- ◆ Wide Operating Wavelength Range
- ◆ Compact Size
- ◆ Low Insertion Loss
- ◆ Latching or Non-latching Configuration
- ◆ Seam-seal Package
- ◆ Highly Stable & Reliable

Applications

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

Compliance

- ◆ Telcordia GR-1221 and GR-1073

Oplink Fiber Optic Product Lines

Amplifier Components

Amplifier Modules

DWDMs

Switching/Routing/

Monitoring/Conditioning

Transmission

RGB Laser Module

OFMS Series 1x1, 1x2, and 2x2 (Add/Drop) Optical Fiber Switches

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 can provide customized designs to meet specialized feature applications. Also, Oplink offers modular assemblies that integrate other components to form a full function module or subsystem.

Performance Specifications

Parameter	Value			Units
	Single Window		Dual Window	
	1x1, 1x2	2x2AD	1x1, 1x2, 2x2AD	
Operating wavelength range	1260~1360 and/or 1510~1610			nm
Insertion loss ^{1,2}	<0.5	<0.6	<0.8	dB
Wavelength dependent loss (within each widow)	<0.15	<0.15	<0.25	dB
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 time	<10			ms
Latch type	Operating current	75 - 115		mA
	Operating voltage	3.5 - 4.5		VDC
Non-latching type	Operating current	28-43		mA
	Operating voltage	4.5 - 5.5		VDC
Durability	10 ⁷			cycles
Operating power handling	500			mW
Operating temperature	0 ~ 70			°C
Storage temperature	-40 ~ 85			°C
Fiber type	Corning SMF-28			
Package dimension ³	P1: 41.5 (L) x 15.5 (W) x 9.0 (H)			mm
	P2: 44.0 (L) x 15.5 (W) x 9.0 (H)			mm

Notes: 1. 23°C over operating wavelength range and all SOP.

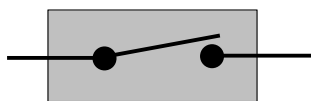
2. Excluding connectors.

3. P2 package option is for pigtail fiber with 900 µm loose tube.

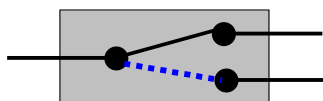


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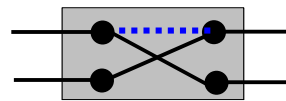
Functional Diagram



1x1 On/Off switch



1x2 switch



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.

