ECO SERIES OPTICAL FIBER SWITCH

OFMS Eco Series

Product Description

Oplink's Eco series optical fiber switches unify different switch configurations of 1x1, Dual 1x1, Quad 1x1, 1x2, 2x2Add/Drop, Full2x2, Dual 1x2, Dual 2x2Add/Drop and Dual Full2x2 onto the same package, providing the same PCB-direct-mountable footprint.

The switches are built based on Oplink's optical switch patents (Patents US 6215919, US 6873757, China ZL03145439.9). They are designed for network protection, fiber monitoring applications.

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 Specification

Parameters	1x1 1x2	Dual 1x1 Dual 1x2 2x2 A/D Full 2x2	Quad 1x1 Dual 2x2 A/D Dual Full 2x2	Unit		
Operating Wavelength Range	1260	nm				
Operating Wavelength Range (Multimode)		770	nm			
1 1 1 1 1 1	Single Window	≤0.5	≤0.7	≤1.1	dB	
Insertion Loss (Single-mode) ¹	Dual Window	≤0.7	≤0.9	≤1.4		
Insertion Loss (Multimode) ²		≤1.0	≤1.2	≤2.0	dB	
PDL (Single-mode)			≤0.1		dB	
Return Loss	Single-mode		≥50		dB	
	Multimode		≥30			
Cross-talk	Single-mode	≥55	≥55	≥50	dB	
	Multimode	≥35	≥30	≥30		
Repeatability			dB			
Switching Time			ms			
Operating Voltage ³	Latching		V			
	Non-latching					
Coil Resistance	Latching		Ω			
Coll Resistance	Non-latching					
Switching Cycle Rate			Hz			
Durability			cycles			
Optical Power Rating			mW			
Switch Type		No				
Fiber Type	Single-mode					
	Multimode	50/125μm				
Operating Temperature			°C			
Operating Relative Humidity			%RH			
Storage Temperature			°C			
Storage Relative Humidity		%RH				

Features

- Wide λ range, low IL & crosstalk
- One footprint for all configurations
- Latching and non-latching options
- Compact and direct PCB mounting

Applications

- Network optical protection
- Network monitoring (use members in Oplink switch family w/≥10M durability where frequent switching is needed)
- Instrument, testing and measurement

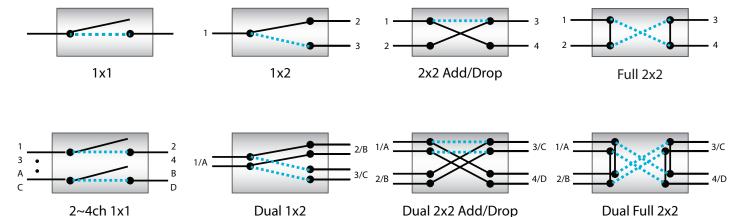
Notes:

- 1) Exclude connector loss. IL @23 °C, 1310 and/or 1550nm and all SOP. Add 0.5 dB (max) to for Quad 1x1, Dual 2x2 A/D, Dual Full 2x2 and 0.3dB (max) for others type for over operating temperature and wavelength ranges.
- 2) Based on FOT-34 method A, steady state equilibrium launch conditions.
- 3) Driving voltage pulse duration shall ≥20ms.



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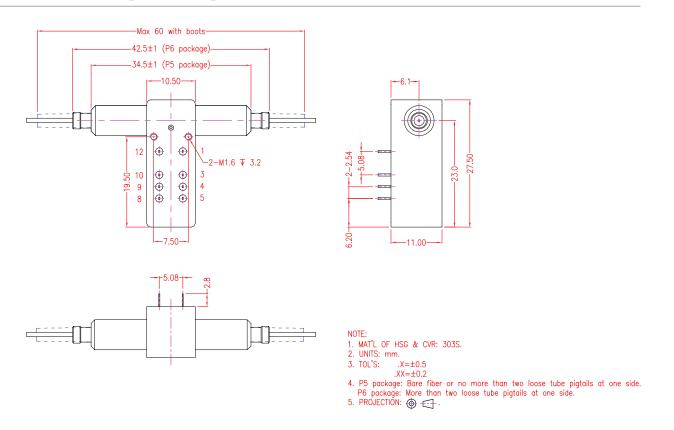
Function Diagram



Electrical Pin Configuration

Optical Path					Drive		Status			
1x1, Dual 1x1, Quad 1x1	1x2, Dual 1x2	2x2AD, Dual 2x2AD	Full 2x2, Dual Full 2x2	Pin #	1	12	4-3	4-5	9-8	9-10
Thru 1/A↔2/B	1/4 2/5	1/A↔4/D	1/A↔4/D,	Latching	+V	GND	Open	Close	Close	Open
	1/A↔2/B	2/B↔3/C	2/B↔3/C	Non-latching	+V	GND				
Block 1/A	1/4 2/6	1/4 . 2/6 1/4 . 2/6	'A↔3/C 1/A↔2/B, 3/C↔4/D	Latching	GND	+V	Close	Open	Open	Close
	1/A↔3/C	1/A↔3/C		Non-latching	-	-				

Mechanical Drawing / Package Dimensions (dimension in mm)

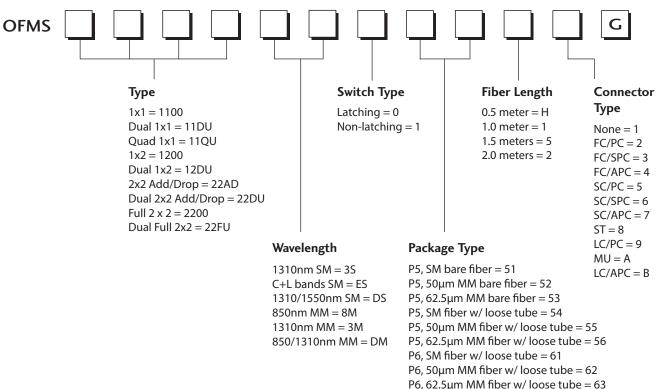




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Ordering Information

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.



^{*} The tolerance of fiber length is +/-0.1m.

 $^{^{}st}$ 1 meter is standard. The lead time for special fiber length will be longer.

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