# OFMS SERIES 1x8 Optical Fiber Switches

#### **OFMS 1x8 Series**

#### **Product Description**

The OFMS series 1x8 optical fiber switch is based on Oplink's patented opto-mechanical switches with unique prism design to improve the switch repeatability and stability. The switches are designed for use in optical channel monitoring, optical cross-connect systems, and network switching for fault protection applications.

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	Value	Unit	
Operating Wavelength Range	1528~1610	nm	
Insertion loss 1,2	< 2.0	dB	
Polarization Dependent Loss	< 0.2	dB	
Return Loss <sup>2</sup>	> 50	dB	
Channel Cross Talk	> 50	dB	
Repeatability	± 0.05	dB	
Switching Time	< 20	ms	
Optical Power Handling	300	mW	
Fiber Type	Corning SMF-28		
Operating Temperature	0 ~70	°C	
Storage Temperature	-40 ~ 85	°C	
Switch Power Supply Voltage (Vcc1)	+ 5	V	
Switch Driving Current at 5V Power Supply	< 250	mA	
Durability	> 10 7	Cycles	
Switch Type	Latching		
Control Interface	CMOS		
Control	3 bit, Latching		
Electrical Connector Type	Fixed male connector mates with BERG 91763-110 Female Recep- tacle		
Dimensions (P2 package)	86.0 (L) x 80.0 (W) x 22.0 (H)	mm	

#### Notes:

- 1) Insertion loss is specified at 23°C over all wavelength range and all SOP.
- 2) Insertion loss and return loss: without connectors.

### Features

- Wide Operating Wavelength Range
- ♦ Fast Switch Speed
- ♦ Highly Stable & Reliable
- Low Insertion Loss
- ♦ Low PDL
- Compact

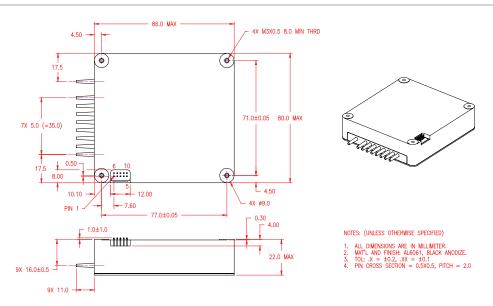
## **Applications**

- Network Monitoring and Switching
- Network Protection and Restoration
- Instrument, Testing and Measurement





# **Mechanical Drawing / Package Dimensions (dimension in mm)**



## **Electrical Connector Configuration**

<b>Optical Path</b>	Electric	al Drive	Control Input				Status Sensor					
PIN#	1	2	3	4	5		6	7	8		9	10
NAME	Vcc1	Agnd	D0	D1	D2		Start	Ready	Error		Dgnd	Vcc2
FUNCTION	Switch Power Supply	Switch Power Return	Port Selection, Data bus				Start trobe	Low= Ready	Low= Error		CMOS Ground	CMOS Power Supply
Control (D2, D1, D0) 000		000	001	010	0	1 1	100	0 10	1 1	1 0	111	_
Selected Port		1	2	3		4	5	6		7	8	_

#### **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.

