

Features

- No moving parts, best reliability
- Ultra fast switching speed
- Extremely stable latching mode
- Low power consumption
- Easy to route-all fiber on one end
- Exceptional reliability and stability



Applications

- Optical switching
- High speed protection
- System monitoring
- Test and measurements
- Fiber sensor system

Product Description

The microsecond Series 1x8 solid-state fiber optical switch connects optical channels by redirecting an incoming optical signal into a selected output optical fiber. The switching of the optical light is realized by utilizing Faraday Effect.

This is achieved using a patent pending non-mechanical configurations with solid-state all-crystal design which eliminates the need for mechanical movement and organic materials. The microsecond fiber optic switch is designed to meet the most demanding switching requirements of reliability, response, and continuous switching operation.

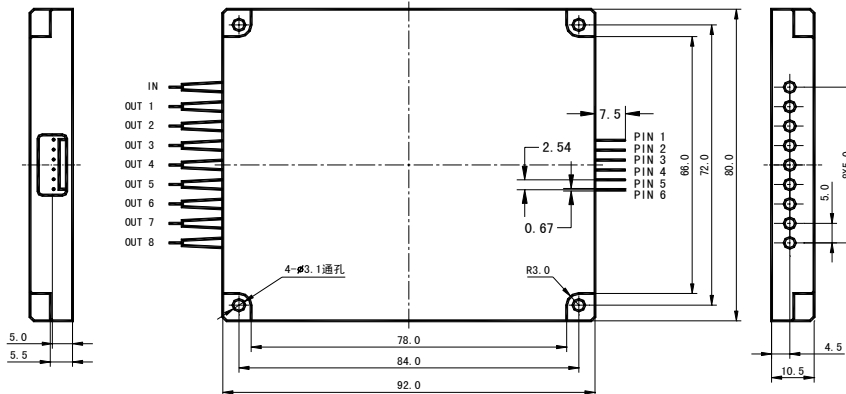
Specifications

Item	unit	Parameter	Note
Wavelength Range	nm	1525~1565	Other band optional
Insertion Loss	dB	2.8(Typical), 3.2 (Max)	
PDL	dB	0.20	
Return Loss	dB	≥ 50	
Crosstalk	dB	≥ 40	Typically ≥45dB @23°C
PMD	ps	≤ 0.20	
Repeatability	dB	±0.01	
Durability	cycles	>10 Billions	
Switching Speed	μ s	10 ~ 400	The switching speed is optional
Maximum Optical Power	mW	500	
Storage Temperature	°C	-40 ~ 85	
Operating Temperature	°C	-5 ~ 70	
Fiber Type		9/125/900 fiber	
Fiber Length	m	0.5 ± 0.02	
Package Size (L x W x H)	mm	92.0 x 80.0 x 10.5	

*. Losses include one connector.

**. Specifications are subject to change without notice

Dimensions drawing (mm)



Electrical Specifications:

Parameter	Specification	Unit
Switching Voltage	4.5~5.5	V
Switching Current	<500	mA
Pulse	<0.5	ms

Pin Definition:

Pin No.	Pin1	Pin2	Pin3	Pin4	Pin5	Pin6
Definition	Vcc	GND	Ctrl2	Ctrl1	Ctrl0	NA

Pin Control Signal Correspond to Switching Status:

Ctrl0	0	1	0	1	0	1	0	1
Ctrl1	0	0	1	1	0	0	1	1
Ctrl2	0	0	0	0	1	1	1	1
Output Port	O1	O2	O3	O4	O5	O6	O7	O8

Ordering information (Sample: PFMS—18M011121)

PFMS-18M 0

Operating Wavelength
1、C band 1525~1565 nm
2、L Band 1565-1615 nm
3、C & L Band
4、Others

Pins Type
1、Standard Pins
2、Custom

Dimension
1、Standard
2、Others

Fiber Length
1、0.5 m
2、1.0 m
3、Custom

2

Connector Type
0.No connector
1、FC/UPC
2、FC/APC
3、SC/UPC
4、SC/APC
5、LC/PC
6、MU/PC
7、Others

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