2×2 Crossbar MagLight™ Optical Switch

M-O Tech® for Optical Network

Features

- No moving parts, best reliability
- Ultra fast switching speed
- Extremely stable latching mode
- Low power consumption
- Exceptional durability and stability

Applications

- Optical switching
- High speed protection
- System monitoring
- Test & measurement
- Fiber-optics sensing system

Product Description

Primanex MagLight™ 2x2 switch is an all solid-state device without any moving parts. The switching of the optical light is realized by utilizing Faraday Effect.

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

Specifications

Item	unit	Parameter	Note
Wavelength Range	nm	1525～1565	Other band optional
Insertion Loss	dB	0.90(Typical); 1.20(Max)	
PDL	dB	0.15(Typical), 0.30(Max)	
Return Loss	dB	≥40	
Crosstalk	dB	≥35	
Repeatability	dB	±0.01	
Durability	Cycles	＞10 Billions	
Switching Speed	μs	10～400	
Maximum Optical Power	mW	500	
Storage Temperature	℃	-40 ～ 85	
Operating Temperature	℃	-5 ～ 70	
Dimension(L×W×H)	mm	78 × 8.2 × 8.2	
Fiber Type		SMF-28e	

*. All the specifications are based on the devices without connector, and guaranteed over wavelength, polarization, and temperature.

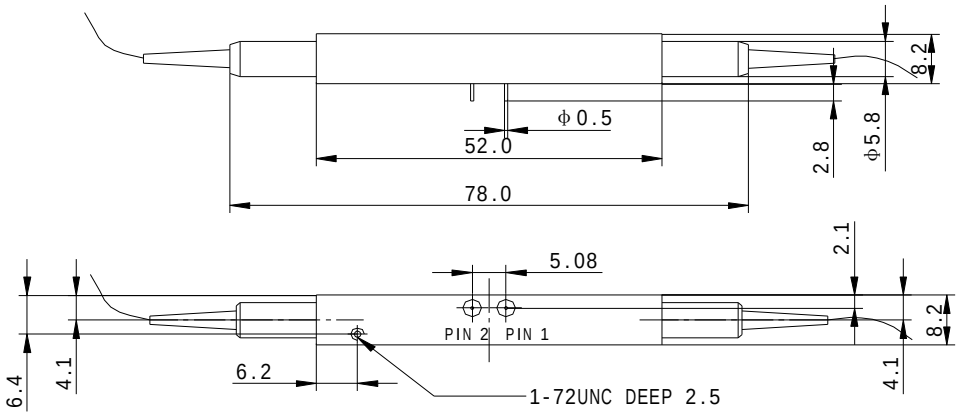
**. Specifications are subject to change without notice.

Add1: 34 Shanghai Rd, Free-Trade Zone, Qingdao,Shangdong 266555, P. R. China Tel: **+86-532-86959098** Fax: **+86-532-86768589**
Add2: 108 Shengtai Rd, Economic Development District, Zhaoyuan, Shandong 265400, P. R. China Tel: **+86-535-8937786** Fax: **+86-535-8937799**
Website: www.primanexchina.com or www.primanexusa.com Email: Sales@primanex.cn

2×2 Crossbar MagLight™ Optical Switch

M-O Tech® for Optical Network

Dimensions drawing (mm)



Electrical specifications

Parameter	Specification		Unit
Switching Speed	200~400	10~30	μs
Switching Voltage（VCC）	4.5~5.5	6.5~7.5	V
Switching Current	< 200	< 500	mA
Pulse Width(typical)	1000	15	μs
Claim Frequency	< 800	< 3000	Hz

* for electrical specifications related to other switching speed, please contact Primanex.

Pin control signal corresponding to switching status table

Pin1	Pin2	The Optical Output Port
1(Voltage = VCC)	0(Voltage = GND)	IN1 → OUT 1; IN2 → OUT 2
0(Voltage = GND)	1(Voltage = VCC)	IN1 → OUT 2; IN2 → OUT 1

Ordering information （Example：RFMS0－22C1121110）

RFMS □ -22C □ □ □ □ □ □ □

- RoHS Compliance
  - 0、Non-Compliant
  - 1、Compliant
- Switch Speed
  - 1、200~400 μs
  - 2、10~30 μs
  - 3、Others
- Operating Wavelength
  - 1、C band 1525~1565 nm
  - 2、L Band 1565-1615 nm
  - 3、C & L Band
  - 4、Others
- Fiber Length
  - 1、0.5 +/-0.1m
  - 2、1.0 +/-0.1m
  - 3、Others
- Pins Type
  - 1、Standard Pins
  - 2、Others
- Dimension
  - 1、Standard
  - 2、Others
- Fiber Type
  - 1、250μm fiber
  - 2、900μm fiber
  - 3、Others
- 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

Add1: 34 Shanghai Rd, Free-Trade Zone, Qingdao,Shangdong 266555, P. R. China Tel: **+86-532-86959098** Fax: **+86-532-86768589**
Add2: 108 Shengtai Rd, Economic Development District, Zhaoyuan, Shandong 265400, P. R. China Tel: **+86-535-8937786** Fax: **+86-535-8937799**
Website: www.primanexchina.com or www.primanexusa.com Email: Sales@primanex.cn