



Features

- No moving parts, best durability
- Ultra fast switching speed
- Extremely stable latching mode
- Low power consumption
- Easy to route -all fibers on same side
- Exceptional reliability and stability





Applications

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

Product Description

Primanex MagLight TM 1x1 optical 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, response, and continuous high frequency switching.

Specifications

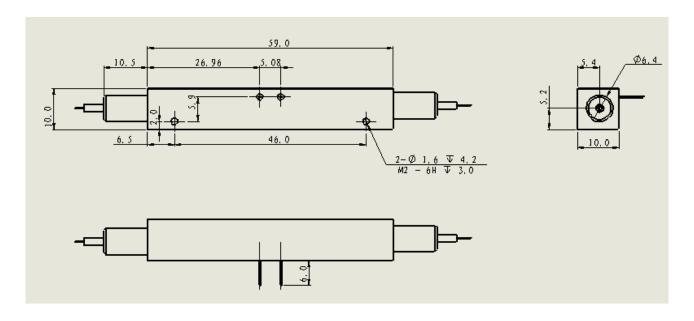
Specifications						
Item	Unit	Parameters		- Notes		
		Unidirectional	Bidirectional	Notes		
Wavelength Range	nm	1525~1565		Other band optional		
Insertion Loss	dB	<1.1	<1.3			
PDL	dB	<0.2				
Return Loss	dB	40	30			
Cross-talk	dB	40	35	Typical >50dB		
PMD	ps	0.2				
Repeatability	dB	+/- 0.01				
Durability	cycles	> 30 Billions				
Cyvitahina Chaod	μs	Regular (200~400); Ultra-fast (20~40)		Time period between controlling		
Switching Speed				signal and optical response		
Light Switching time	μs	Ultra-fast (<5)		Optical rising edge and falling edge		
Storage Temperature	⁰ C	-40~85				
Operating Temperature	⁰ C	-5~70				
Maximum Optical Power	mW	500				
Dimension(L×W×H)	mm	59×10× 10				

^{*.} All the specifications are based on the devices without connectors, and guaranteed over wavelength, polarization and temperature.

^{**.} Specifications are subject to change without notice.



Dimensions Drawing (mm)



Electrical Specifications

Domomotous	Specificati	T		
Parameters	Regular	Ultra-fast	Unit	
Switching Speed	200~400	20~40	μs	
Switching Voltage (VCC)	5 (+/-5%)	5 (+/-5%)	V	
Driving Mode	Voltage or Pulse Driving	Pulse Driving	NA	
Pulse Width (typical)	1000	30	μs	
Claim Frequency	<800	< 10000	Hz	

Notes:

- Primanex provides optional switch driving board at additional charge;
- It is recommended to use Primanex switch driving board for the Ultra-fast switch;

Pin control signal corresponding to switching status table

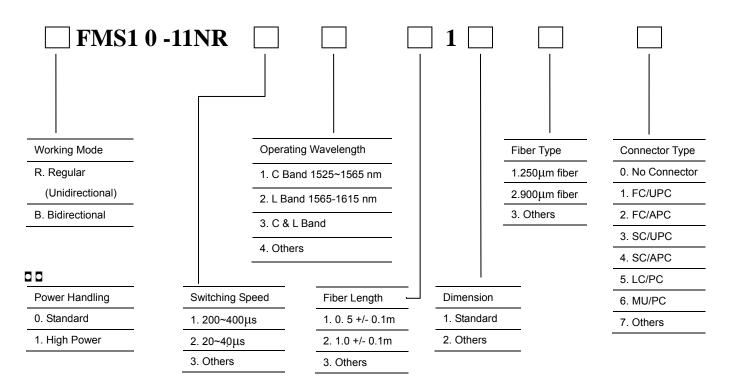
Pin1	Pin2	The Optical Output Port
1(Voltage = VCC)	0(Voltage = GND)	ON
0(Voltage = GND)	1(Voltage = VCC)	OFF



1x1 MagLightTM Optical Switch

Photonics Beyond Boundary

Ordering Information(Example:RFMS10-11NR1121110)



All statements, technical information and recommendations related to the products herein are based upon information believed to be reliable or accurate. However, the accuracy or completeness thereof is not guaranteed, and no responsibility is assumed for any inaccuracies. The user assumes all risks and liability whatsoever in connection with the use of a product or its application. Primanex reserves the right to change at any time without notices the design, specifications, function, fit or form of its products described herein, including withdrawal at any time of a product offered for sale herein. Primanex makes no representations that the products herein are free from any intellectual property claims of others. Please contact Primanex for more information. Primanex and the Primanex logo are trademarks of Primanex Corporation. Other trademarks are the property of their respective holders.

Add: Rm#802, Bldg#57, Qingdao Optics Valley International Marine Information Port 396 Emei Rd, Qingdao Economics & Technology Development Zone, Shandong 266555, China.

Tel: +86-532-8695 9098 Fax: +86-532-8676 8589

Website: WWW.Primanex.com.cn

Email: Sales@primanex.com.cn