



Photonics Beyond Boundary

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
- Channel protection
- System monitoring
- Test & measurement
- Fiber optics sensing system
- High speed optics beam scanning

Product Description

Primanex *MagLight* TM 1x1 optical switch is an all solid-state device without any moving parts. The switching of the optical signal is based on well-known Faraday Effect, and realized by 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 for reliability, durability, speed, and none-stopping high frequency switching.

Specifications

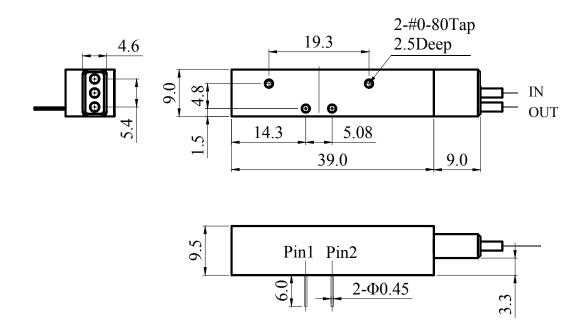
Item	Unit	Parameters		N. A
		Unidirectional	Bidirectional	Notes
Wavelength Range	nm	1525~1565		Other wavelengths available
Insertion Loss	dB	<1.1	<1.3	
PDL	dB	<0.2		
Return Loss	dB	>40	>30	
Cross-talk	dB	>40	>35	Typical >50dB
PMD	ps	<0.2		
Repeatability	dB	+/- 0.01		
Durability	Cycle	> 100 Billions		
Switching Speed	μs	Regular (200~400); Ultra-fast (10~30)		Other speed optional
Switching Type	N/A	Latching		Need power only during switching
Operating Temperature	°C	-5~70		
Storage Temperature	⁰ C	-40~85		
Maximum Optical Power	mW	500		Refer to hi-power version for higher power handling requirement
Dimension(L×W×H)	mm	$39 \times 9.0 \times 9.5$		

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

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



Dimensions Drawing (Unit: mm)



Electrical Specifications

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Parameters	Regular	Ultra-fast	Unit
Switching Speed	200~400	10~30	μs
Switching Voltage (VCC)	5 (+/-5%)	6.0~7.0	V
Switching Current	< 100	< 350	mA
Driving Mode	Voltage or Pulse Driving	Pulse Driving	NA
Electrical Pulse Width	>1000	>20	μs
Claim Frequency	<800	< 3000	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;
- To avoid damaging the Ultra-fast switch, Primanex recommends to set the current limit below 800mA when the power supply voltage is set at 6.0V~7.0V.

Pin Control Table

States	Pin1	Pin2	The Optical Path
"0"	1(Voltage = VCC)	0(Voltage = GND)	On
"1"	0(Voltage = GND)	1(Voltage = VCC)	Off

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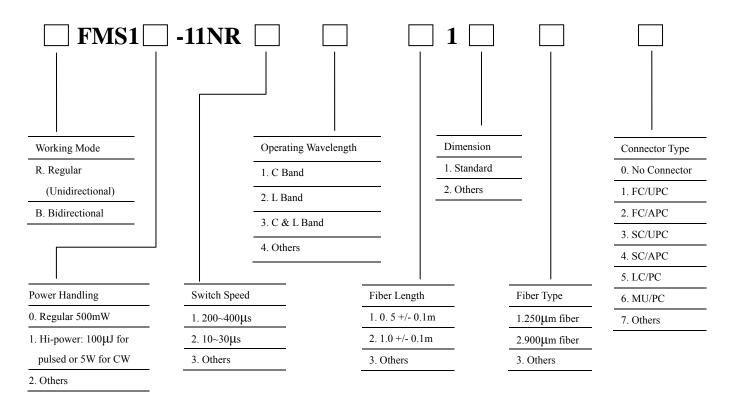
Email: Sales@primanex.com.cn



1x1 MagLightTM Optical Switch

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Ordering Information (Example: RFMS10-11NR1121110)



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