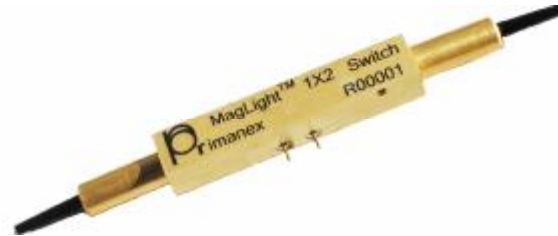




## Features

- 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

The microsecond-series 1x2 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 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 operation.

## Specifications

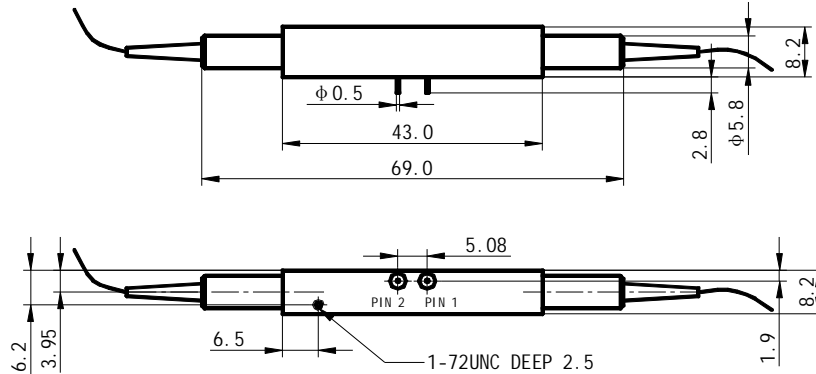
Item	unit	Parameter	Note
Wavelength Range	nm	1525~1565	Other band optional
Insertion Loss	dB	0.70(Typ.); 1.00(Max.)	
PDL	dB	0.10(Typ.); 0.25(Max.)	
Return Loss	dB	≥40	
Crosstalk	dB	≥40	
Repeatability	dB	±0.01	
Durability	Cycles	> 10 Billions	
Switching Speed	μs	10~400	
Maximum Optical Power	mW	500	
Storage Temperature	°C	-40 ~ 85	
Operating Temperature	°C	-5 ~ 70	
Dimension( L×W×H )	mm	69 × 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



## 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:

<b>Pin1</b>	1 (Voltage = VCC)	0 (Voltage = GND)	1 (Voltage = VCC)	0 (Voltage = GND)
<b>Pin2</b>	0 (Voltage = GND)	1 (Voltage = VCC)	0 (Voltage = GND)	1 (Voltage = VCC)
<b>Optical Path</b>	COMM → CH #1	COMM → CH #2	CH #2 → COMM	CH #1 → COMM

## Ordering information (Example: RFMS0-12T1121110)

RFMS <input type="checkbox"/> - 12T <input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
RoHS Compliance	Switch Speed	Fiber Length	Pins Type	Fiber Type	Connector Type	Operating Wavelength	Dimension
0、Non-Compliant	1、200~400 μs	1、0.5 +/-0.1m	1、Standard Pins	1、250μm fiber	0.No connector	1、C band 1525~1565 nm	1、Standard
1、Compliant	2、10~30 μs	2、1.0 +/-0.1m	2、Others	2、900μm fiber	1、FC/UPC	2、L Band 1565-1615 nm	2、Others
	3、Others	3、Others		3、Others	2、FC/APC	3、C & L Band	
					3、SC/UPC	4、Others	
					4、SC/APC		
					5、LC/PC		
					6、MU/PC		
					7、Others		