



MagLight™ 2x2 Optical Switch

Revision v2.1

Product Information

Model number: MagLight PFMSS22XXXXXX Series

Description: 2x2 Magneto-Optic Switch

Selected Applications

- High Speed Protection Switching
- System Monitoring
- Re-configurable Add-drop
- Sub-system Modules

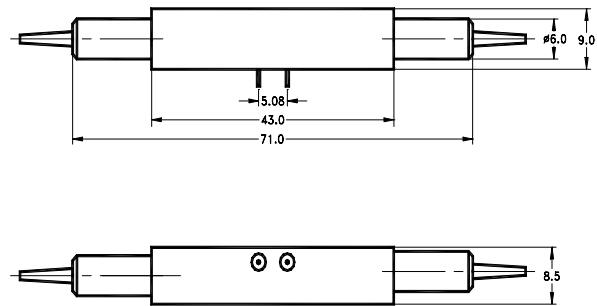
Selected Features

- Best Reliability, No Moving Parts
- Ultra Compact Size
- Ultra Fast Switching Speed
- Extremely Stable Latching Mode
- Low Insertion Loss
- Low Power Consumption



Schematic Diagram (unit: mm)

All fibers come out from one side.



Optical Specifications

Parameters	All Ports				Unit
Wavelength	C Band		L Band		
	Typical	Max	Typical	Max	
Insertion Loss	0.8	1.0	0.9	1.2	dB
Durability	> 2 Billions	NA	> 2 Billions	NA	Cycles
Peak Cross Talk	-65	-60	-65	-60	dB
Cross Talk Over λ , T, SOP	-55	-50	-50	-45	dB
PDL	0.07	0.1	0.07	0.1	dB
PMD	0.05	0.1	0.05	0.1	ps
Return Loss	55	50	55	50	dB
Optical Power	500	NA	500	NA	mW
Switching Speed	0.2	0.4	0.2	0.4	mS
Repeatability	NA	± 0.02	NA	± 0.02	dB

Primanex Corporation

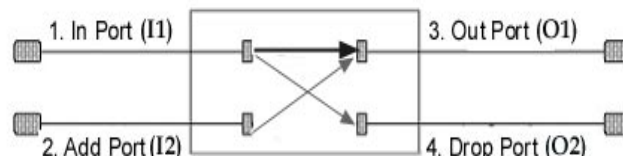
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Mechanical Specifications

Parameters	Range	Unit
Package Dimension	43 (L) x 8.5 (W) x 8.5(H)	mm
Fiber Type	SMF 28	
Fiber Length	100 ± 5	cm
Connector	Optional	

Device Configuration



Electrical Specifications

Parameters	Range	Unit
Switching Voltage	4.5 ~ 5.5	V
Switching Current	<300	mA
Pulse Duration	<0.5	ms

Environmental Specifications

Parameters	Range	Unit
Operation Temperature	0 ~ 65	°C
Storage Temperature	-40 ~ 85	°C
Humidity	0 ~ 85%	RH

2x2 Switch Performance:

