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1x2 Optical Switch

Key Feature

- >Smallest size
- >Low insertion loss
- >Fast switching speed
- >ROHS compliance
- >Low PDL



Applications

- >Optical communications
- >Reconfigurable add/drop multiplexers
- >Automatic optical testing
- >Wavelength router
- >Research and development
- >Transmission equipment protection

Description

Lightwave Link Fiber Optical Switches are based on Opto-Mechanical technology with proven reliability

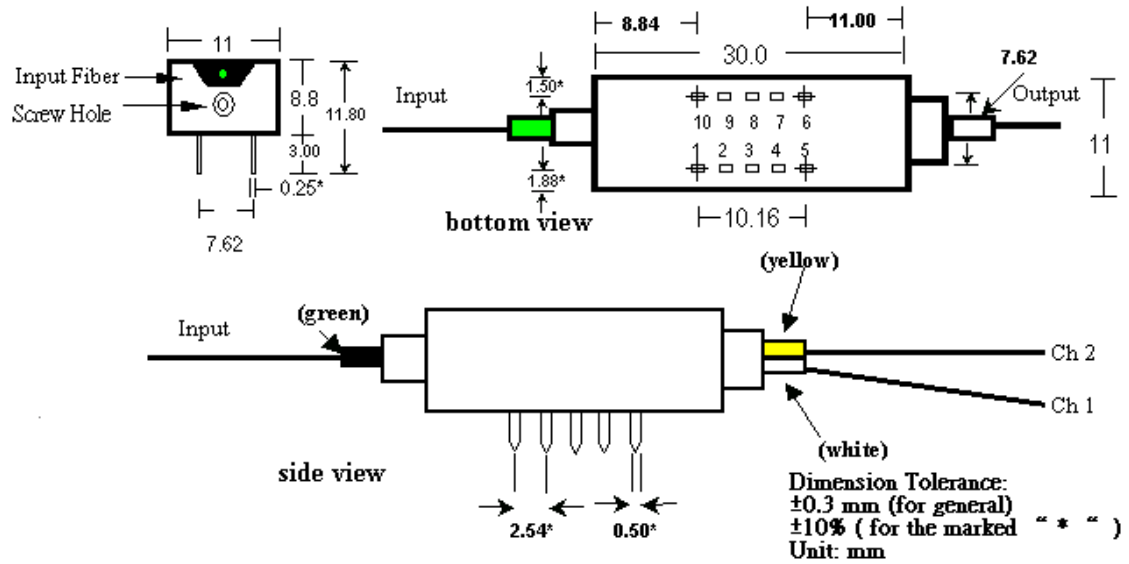
With the state-of-the-art technology developed by Lightwave Link, performance of LWL-FOSWs is optimized for a wide range of fiber-optic applications.

Designed is based on worldwide telecommunications, data communications, system monitoring and computer testing requirements.

Fully complied with Telcordia GR-1073-CORE test and complied with applicable items of Telcordia GR-1221-CORE test.



Outline Drawing



Electrical Characteristics

Parameter	Specification
Coil Resistance (Ω)	125 ($\pm 10\%$)
Operating Current (mA), typ.	40.0 ($\pm 10\%$)
Operating Voltage (V), typ.	5.0
Operating Voltage (V), range	4.5 ~ 5.5
Power Consumption (mW), typ.*	200 ($\pm 10\%$)

* When +5V DC signal is applied to only one coil.

Electro-Optical Characteristics

Parameter		Specification	
		S.M. fiber	M.M. fiber
Wavelength Range (nm)		1280 ~ 1340	850/1300
		1520 ~ 1625	
Insertion Loss (dB)	Typical	0.6	0.5
	MAX	1.0	0.8
PDL (dB)		≤ 0.1	—
WDL (dB)		≤ 0.3	—
Return Loss (dB)		≤ -45	—
Switching Time (ms)		≤ 5	≤ 10
Crosstalk (dB)		≤ -80	
Repeatability (dB)		≤ 0.1	

Mechanical & Environmental

Parameter	Specification	
	S.M. fiber	M.M. fiber
Operating Temperature Range (°C)	-5 ~ 70	-20 ~ 75
Storage Temperature Range (°C)	-40 ~ 70	
Humidity	5 ~ 85 % RH	
Durability (Cycles)	> 10 ⁷	
Dimension (Hmm×Wmm×Lmm)	8.8×11×30	
Weight (g)	< 20	

***All above are general specifications , except custom requirement .**