

1x2 Optical Switch 1x1 (On/Off) Switch LT210

The LT210 Series of 1x2 and 1x1 (On/Off) optical switches offer PCB mountability combined with an industry leading small footprint. The module height of 5.5mm permits dense system configuration. The LT210 incorporates LIGHTech's patented reflective optics technology to deliver outstanding performance and reliability.

- Meets Telcordia 1073 performance and reliability standards
- Designed to meet Telcordia 1221 performance and reliability standards
- Insertion loss of 0.5 dB, typical
- Repeatability of ± 0.02 dB
- Switching Speed of 5 ms
- Module configuration reduces fiber routing problems
- PCB mountable
- Operates with direct control
- Compact size of 5.5 x 22 x 48 mm

Applications

- System redundancy
- Add/drop
- Route diversity
- Signal routing and monitoring
- Test access
- Component testing



Fiberoptic Solutions at the Speed of

LIGHTechTM
FIBEROPTICS, INC.

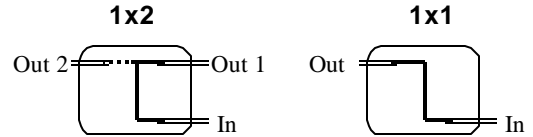
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Configurations



Performance Specifications

Specifications	LT210 Series 1x2 & 1x1	Unit
Insertion Loss ^{1,2}	0.5 typ - 0.8 max	dB
Repeatability	< ± 0.02	dB
Switching Time	5 typ - 8 max	ms
Operating Temperature	0 to 65	°C
Back Reflection	< -55	dB
Crosstalk	< -70	dB
Maximum Operating Current	50	mA
Nominal Operating Voltage ³	5	V DC
PDL	< 0.1	dB
Durability	10 million min	cycle
Control	PCB Mountable	--
Housing Dimensions (HxWxL)	5.5 x 22 x 48	mm
Wavelength Window ⁴	1280~1340, 1520~1580	nm

All specifications referenced without connectors

All specifications referenced with single-mode fiber

Multimode switches available upon request

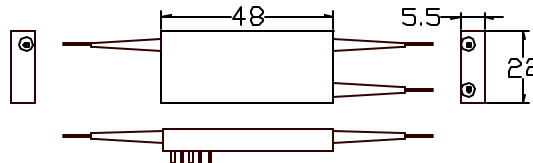
1. Insertion loss based on single wavelength only

2. Add 0.2 dB for 1310/1550 nm dual wavelength

3. Operating voltage range from 4.75 to 5.5 volts (at room temperature)

4. Optimized at 1310 or 1550 nm (other wavelengths available upon request)

Housing Dimensions:



Ordering Information: ⁽⁴⁾

Example: S101LR5P-FCA2

Code	# of Input Channels	Code	# of Output Channels	Code	Wavelength	Code	Connector Type	Code	Pigtail ⁽³⁾
1	1	01	1	3	1310 nm	FCA	FC/APC	2	900 μm loose tube ⁽¹⁾
		02	2	5	1550 nm ⁽¹⁾	FCP	FC/PC	9	900 μm tight buffer
				D	1310/1550 nm ⁽²⁾	FCU	FC/UPC	S	Special
				S	Special	SCA	SC/APC		
						SCP	SC/PC		
						SCU	SC/UPC		
						STP	ST/PC		
						XXX	No Connectors		
						SSS	Special		

(1) Product standards

(2) Cause specification change

(3) Length: 1 ± 0.1 meter

(4) Custom specifications available

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