

2x2 Optical Switch

LT200

The LT200 Series 2x2 optical switches are available with direct or TTL control. They feature our patented reflective optics technology that delivers excellent performance and reliability from 0 - 65 °C.

- Designed to meet Telcordia 1073 and 1221 performance and reliability standards
- High switching speed at 15 ms, typical
- High repeatability and low crosstalk at < -70 dB
- Reduces fiber routing problems
- Patented reflective optics permit operation from 0-65 °C
- Operates under direct or TTL control
- Compact size - 14 x 20 x 70 mm

Applications

- System redundancy
- Add/drop
- Route diversity
- Ring restoration
- Signal routing
- Loopback
- Component testing
- R&D laboratories



Fiberoptic Solutions at the Speed of

LIGHTechTM
FIBEROPTICS, INC.

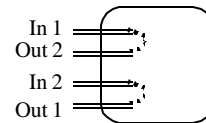
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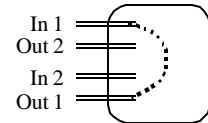
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Configurations



Inserted state



Bypass state

Performance Specifications

Specifications	LT200 Series 2x2	Unit
Insertion Loss ^{1,2,3}	0.8 typ – 1.0 max	dB
Repeatability	< ± 0.02	dB
Switching Time ⁴	15 typ - 25 max	ms
Operating Temperature	0 to 65	°C
Back Reflection	< -55	dB
Crosstalk	< -70	dB
Maximum Operating Current	54	mA
Nominal Operating Voltage ⁵	5	V DC
PDL	< 0.1	dB
Durability	10 million min	cycle
Control ⁶	Direct/Wire Harness	--
Housing Dimensions (HxWxL)	14x20x70	mm
Wavelength Window ⁷	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 1550 nm single wavelength

2. Add 0.6 dB insertion loss for loop back (bypass)

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

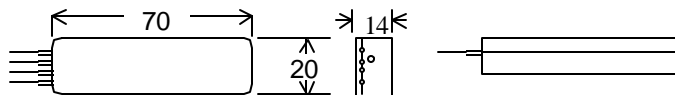
4. For non-latching, 40 ms max

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

6. TTL control is available as an option

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

Housing Dimensions



Ordering Information: ⁽⁴⁾

Example: S2N2LR5M-FCA2

Code		Blocking		Code		Control		Code		Pigtail ⁽³⁾	
B	Blocking	S	2	2	R	M	Direct ⁽¹⁾	2	900 μm loose tube ⁽¹⁾		
N	Non-blocking	L	Latching ⁽¹⁾		T	TTL ⁽²⁾	9	900 μm tight buffer			
		N	Non-latching ⁽²⁾								
Code		Wavelength		Code		Connector Type					
3	1310 nm	FCA	FC/APC								
5	1550 nm	FCP	FC/PC								
D	1310/1550 nm ⁽²⁾	FCU	FC/UPC								
		SCA	SC/APC								
		SCP	SC/PC								
		SCU	SC/UPC								
		STP	ST/PC								

(1) Product standards

(2) Causes specification change

(3) Length: 1 ± 0.1 meter

(4) Custom specifications available

The information set forth in this document reflects our best knowledge at the time of issue. The document is subject to changes pursuant to new developments and findings, and a similar reservation applies to the properties of the products described. We undertake no liability for results obtained by usage of our products and information.