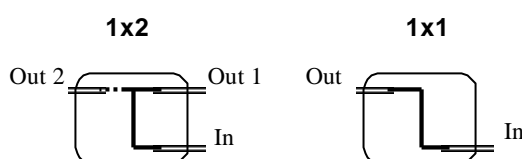


1X1 & 1X2 Optical Switch

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 patented reflective optics technology to deliver outstanding performance and reliability.



Configurations



Features

- Meets Telcordia 1073 & 1221 standards
- Low insertion loss of 0.5 dB, typical
- Repeatability of ± 0.02 dB
- High switching speed of 5 ms
- Module configuration reduces fiber routing problems
- PCB mountable
- Operates under direct control
- Compact size - 5.5 x 22 x 48 mm

Applications

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

Specifications

| Item | Unit | Specifications |
|--|-------|----------------------|
| Insertion Loss ^{1,2} | dB | 0.5 typ. ~ 0.8 max |
| Repeatability | dB | < ± 0.02 |
| Switching Time | ms | 5 typ. ~ 8 max |
| Operating Temperature | °C | 0 to 65 |
| Back Reflection | dB | < -55 |
| Crosstalk | dB | < -70 |
| Maximum Operating Current | mA | 50 |
| Nominal Operating Voltage ³ | V DC | 5 |
| PDL | dB | <0.1 |
| Durability | cycle | 10 million min |
| Control | -- | PCB Mountable |
| Housing Dimensions (H x W x L) | mm | 5.5x22x48 |
| Wavelength Window ⁴ | nm | 1280~1340, 1520~1580 |

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.

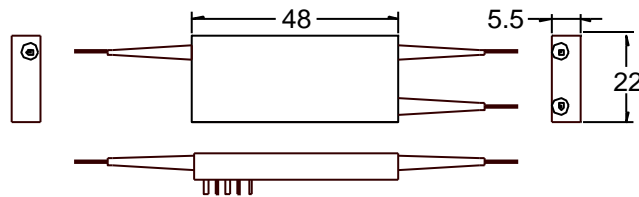
2.Add 0.2 dB for 1310/1550 nm dual wavelength.

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).

1X1 & 1X2 Optical Switch

Dimensions:



Ordering Information:

Example: S101LR5P-FCA2

| Code | | # of Input Channels | Code | | # of Output Channels | Code | | Wavelength | Code | | Connector Type | Code | | Pigtail ⁽³⁾ |
|------|--|---------------------|------|--|----------------------|------|--|-----------------------------|------|--|----------------|------|--|----------------------------------|
| 1 | | 1 | 1 | | 1 | 3 | | 1310 nm | FCA | | FC/APC | 2 | | 900 µm loose tube ⁽¹⁾ |
| | | | 2 | | 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

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