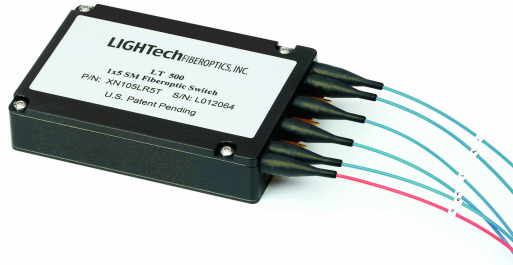
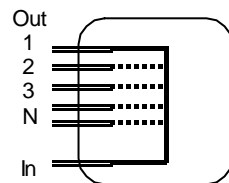


## 1XN Optical Switch

The LT500 Series of 1xN (1x3-1x5) optical switches combine world class switching speed with low insertion loss and excellent repeatability. The LT500 Series small form factor enables optimal space management and simple integration with complimentary optical components. The LT500 incorporates patented reflective optics technology to deliver outstanding performance and reliability.



### Configurations



### Specifications

Item	Unit	Specifications
Insertion Loss <sup>1,2</sup>	dB	0.6 typ. ~ 1.0 max
Repeatability	dB	< ± 0.02
Switching Time <sup>3</sup>	ms	8 typ. ~ 12 max
Operating Temperature	°C	0 to 65
Back Reflection	dB	< -55
Crosstalk	dB	< -70
Maximum Operating Current	mA	88
Nominal Operating Voltage <sup>4</sup>	V DC	5
PDL	dB	<0.1
Durability	cycle	10 million min
Control	--	TTL / 14-pin out
Housing Dimensions (H x W x L)	mm	15x50x70
Wavelength Window <sup>5</sup>	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 1550 nm single wavelength.

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

3.For non-latching, 40ms max.

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

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

### Features

- Meets Telcordia 1221 standards
- Insertion loss of 0.6 dB, typical
- Repeatability of  $\pm 0.02$  dB
- Switching speed of 10 ms, typical
- Crosstalk of < -70 dB
- Patented reflective optics permits operation from 0-65 °C
- Operates with TTL control
- Compact size of 15 x 50 x 70 mm

### Applications

- Broadband wavelength monitoring
- System monitoring
- Test access
- OEM network test systems

