

# 1xN Optical Switch

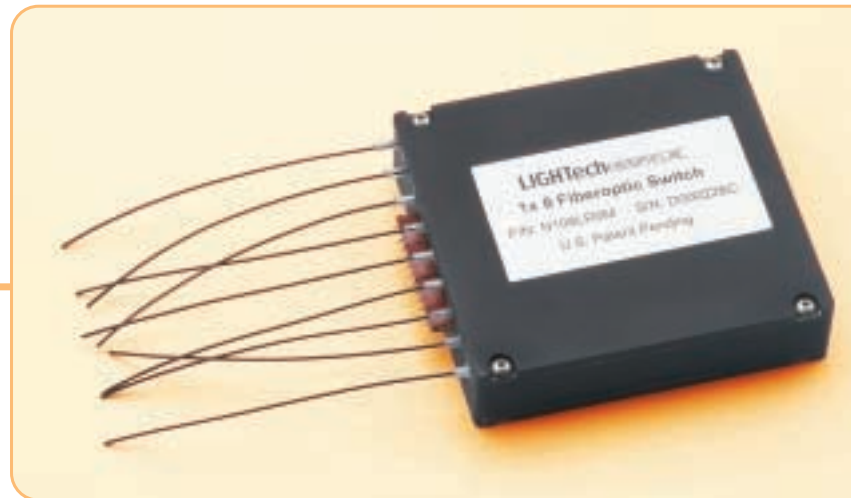
## LT800

The LT800 Series 1xN (1x3 - 1x8) optical switches combine high switching speed with low insertion loss and high repeatability. 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
- Low insertion loss of 0.6 dB, typical
- High switching speed of 15 ms, typical
- High repeatability and low crosstalk at < -70 dB
- Patented reflective optics permit operation from 0-65 °C
- Operates under TTL control
- Compact size - 20.5 x 80 x 85 mm

### Applications

- Wavelength monitoring
- System monitoring
- Test access
- OEM network test systems



Fiberoptic Solutions at the Speed of

**LIGHTech**<sup>TM</sup>  
FIBEROPTICS, INC.

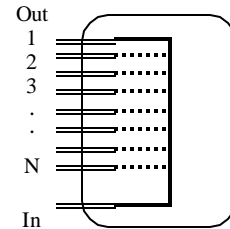
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## Configuration

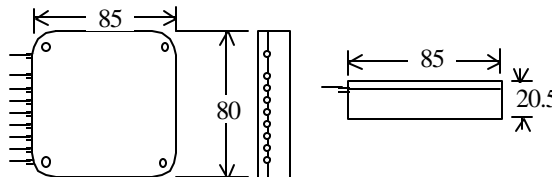


## Performance Specifications

Specifications	LT800 Series 1x3 - 1x8	Units
Insertion Loss <sup>1,2</sup>	0.6 typ – 1.0 max	dB
Repeatability	< ± 0.02	dB
Switching Time <sup>3</sup>	15 typ - 25 max	ms
Operating Temperature	0 to 65	°C
Back Reflection	< -55	dB
Crosstalk	< -70	dB
Maximum Operating Current	88	mA
Nominal Operating Voltage <sup>4</sup>	5	V DC
PDL	< 0.1	dB
Durability	10 million min	cycle
Control	TTL / 14-pin out	--
Housing Dimensions (HxWxL)	20.5 x 80 x 85	mm
Wavelength Window <sup>5</sup>	1280~1340, 1520~1580	nm

- All specifications referenced without connectors  
All specifications referenced with single-mode fiber
1. Insertion loss based on 1550 nm single wavelength
  2. Add 0.2 dB for 1310/1550 nm dual wavelength
  3. For non-latching, 40 ms 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)

## Housing Dimensions:



## Ordering Information: <sup>(4)</sup>

Example: N108LR5T-FCA2

Code		# of Input Channels		Code		Control		Code		# of Output Channels		Code		Wavelength		Code		Connector Type		Code		Pigtail <sup>(3)</sup>	
1		1		L	Latching <sup>(1)</sup>	03	3	FCA	FC/APC	2	3	900 μm loose tube <sup>(1)</sup>											
				N	Non-latching <sup>(2)</sup>	04	4	FCP	FC/PC	3	3	3 mm tight buffer <sup>(2)</sup>											
						05	5	FCU	FC/UPC	9	9	900 μm tight buffer											
						06	6	SCA	SC/APC	S	S	Special											
						07	7	SCP	SC/PC														
						08	8	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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