

Since 1980 the research and development of PLC (planar lightwave circuit) devices using silica glass waveguides has been conducted.

As a result of the continuing development of this technology we have realized the mass production of PLC devices for optical communications

and optical signal processing with high performance and high reliability.

We will continue to support photonic network innovations by developing new PLC devices.

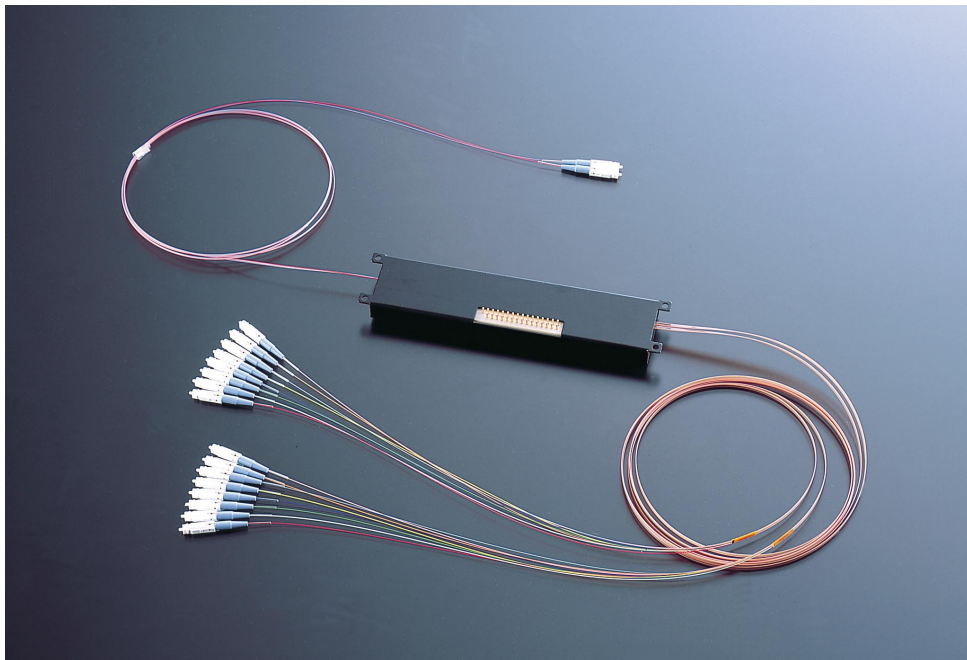
1xN Optical Switch

Our optical switches are very stable and reliable since they have no moving parts.

They consist of planar lightwave circuit Mach-Zehnder interferometers with thermo-optic phase shifters.

They can be used for OADM and OXC.

- 2-Arrayed Type Available
- High Extinction Ratio
- Milliseconds Response
- No Moving Parts

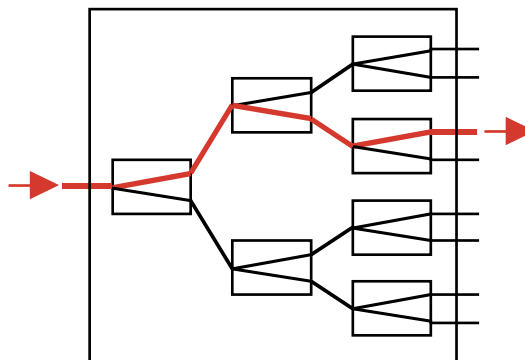


2-Arrayed 1x8 Optical Switch

Line up

- Single 1 x 8 Optical Switch
- 2-Arrayed 1 x 8 Optical Switch
- 2-Arrayed 1 x 16 Optical Switch

Logical Structure



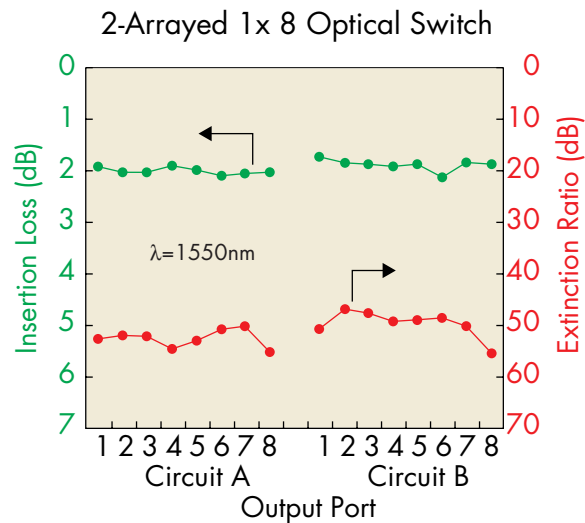
1x8 Optical Switch

Specifications

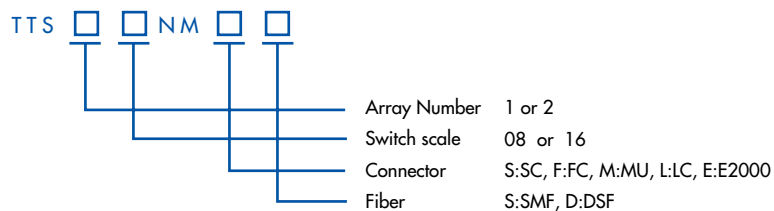
	1x8 Optical Switch		1x16 Optical Switch
Array Numbers	1	2	2
Operating wavelength	1550 nm Region		
Insertion Loss	≤ 3 dB		≤ 4 dB
Loss Uniformity	≤ 1.5 dB		
Extinction Ratio	≥ 40 dB		
PDL	≤ 0.5 dB		
Return Loss	≥ 40 dB		
Switching Speed	≤ 3 ms		
Power Consumption	≤ 1.8 W	≤ 3.6 W	≤ 2.7 W
Environmental Temperature	0 to 65 °C		
Switching Control	Direct Drive		
Recommended Cooling Condition	Forced air cooling required (> 1.5m/sec recommended)		
Dimension (W x D x H)*	130 x 22 x 13 mm ³	142 x 33.3 x 13 mm ³	122 x 53 x 13 mm ³

*excluding PCB fixing parts and fibers

Optical Characteristics



Model Numbers



All information and specifications are subject to change without notice.

Photonics Business Group
 NTT Electronics Corporation
 Seibu Industrial Park Naka, Ibaraki 311-0122 Japan
 TEL:029-270-6622 FAX:029-270-6936
<http://www.nel-world.com> e-mail:sales@photo.nel.co.jp

NTT Electronics

