

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.

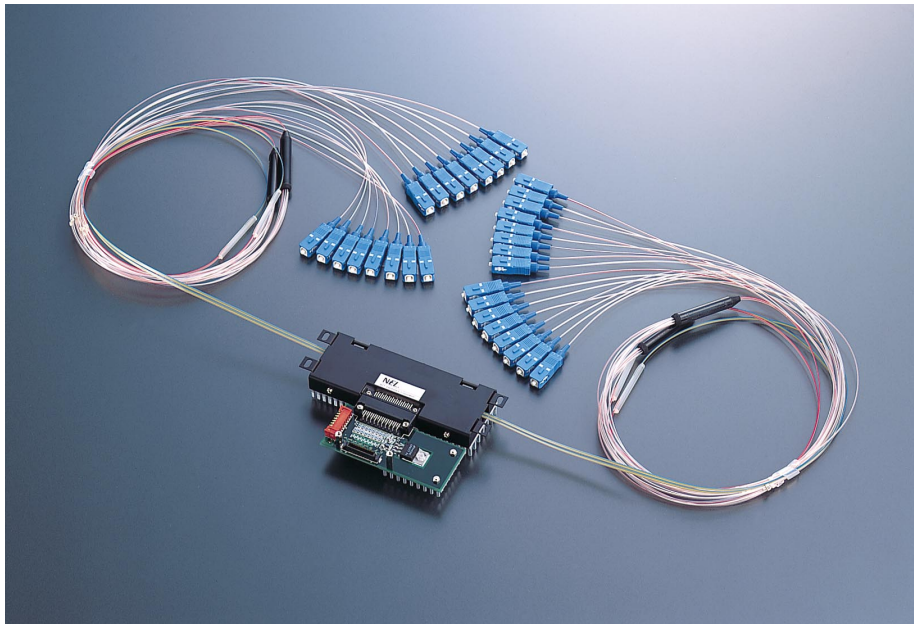
8-Arrayed 2x2 Optical Switch

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

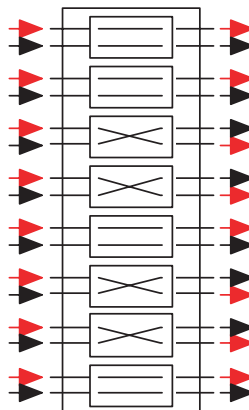
They consist of planar lightwave circuit Mach-Zehnder interferometers with thermo-optic phase shifters.

They can be used for OADM and OXC.

- Compact Size
- Multi-channel Integration
- Milliseconds Response
- No Moving Parts



Logical Structure



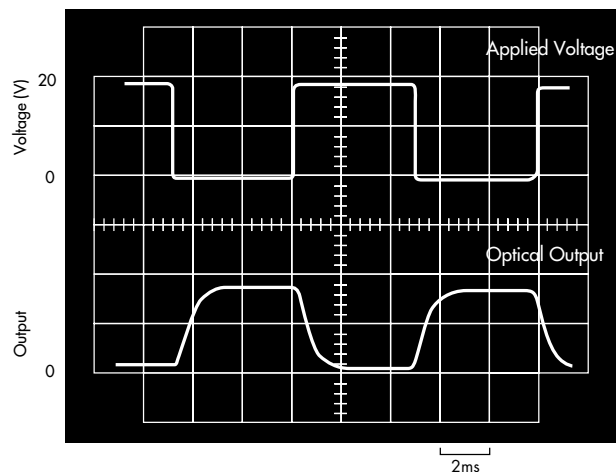
8-Arrayed 2x2 Optical Switch

Specifications

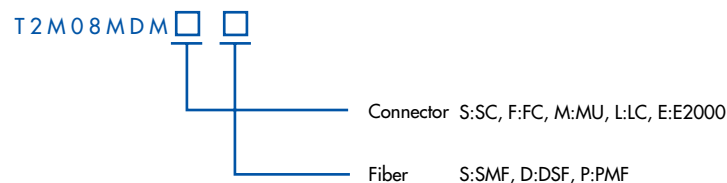
	8-Arrayed 2x2 Optical Switch
Operating wavelength	1550 nm Region
Insertion Loss	≤ 3 dB
Extinction Ratio	≥ 35 dB
PDL	≤ 0.5 dB
Return Loss	≥ 40 dB
Switching Speed	≤ 3 ms
Power Consumption	≤ 14.4W (PLC Module), 6W (drive circuit)
Environmental Temperature	0 to 65 °C
Switching Control	TTL Drive (+5V)
Supply Voltage/Current	24V±5%, 0.85A(Max)
Recommended Cooling Condition	Forced air cooling required (> 1.5m/sec recommended)
Dimension (W x D x H)*	110 x 80 x 20 mm ³

*excluding PCB fixing parts and fibers

Switching Response



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

