

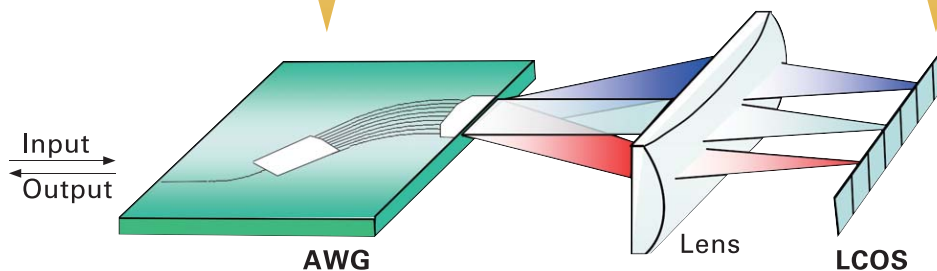
# New Optical Signal Processor for AWG and LCOS

## Arrayed waveguide grating (AWG)

- Flexible design for high performance
- Large angular dispersion

## Liquid crystal on Si (LCOS)

- Versatile optical controllability with micro pixels
- e.g. Intensity, Phase, Direction, Polarization

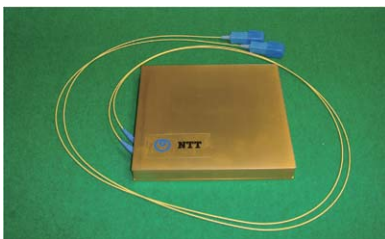


### Features

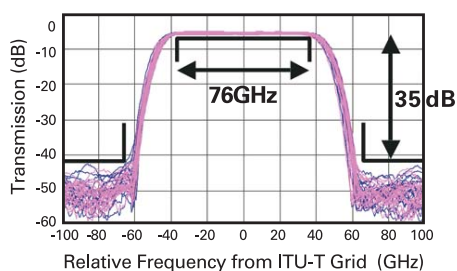
- High performance & wide range of applications  
WB/ WSS, multi-channel TODC, PMDC, etc.
- Versatile optical signal processing for ultra high speed NW (40 or 100 Gb/s)

## Compact & wide-band WB\*

\* Wavelength Blocker



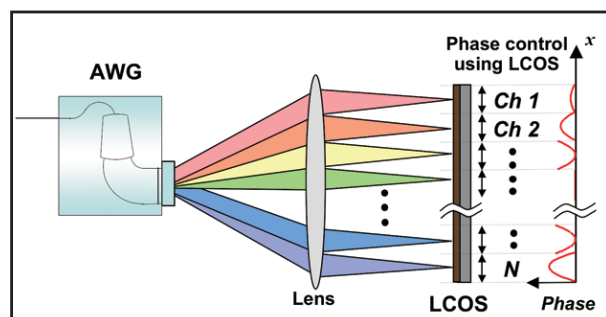
(a) Prototype module  
(100 x 100 x 14 mm)



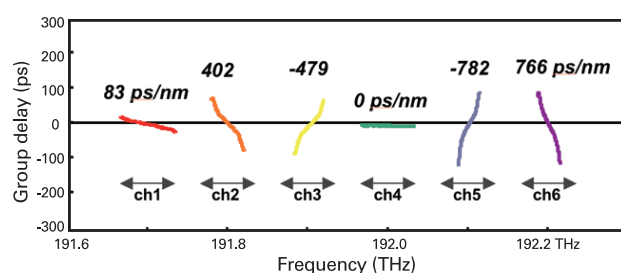
(b) 40-channel overlaid transmission spectra (OFC 2008)

## Channel-by-channel TODC\*

\* Tunable Optical Dispersion Compensator



(a) Schematic diagram of multi-channel TODC



(b) Channel-by-channel TODC operation(OFC 2008)