

# Substrate for Co-Packaged Optics

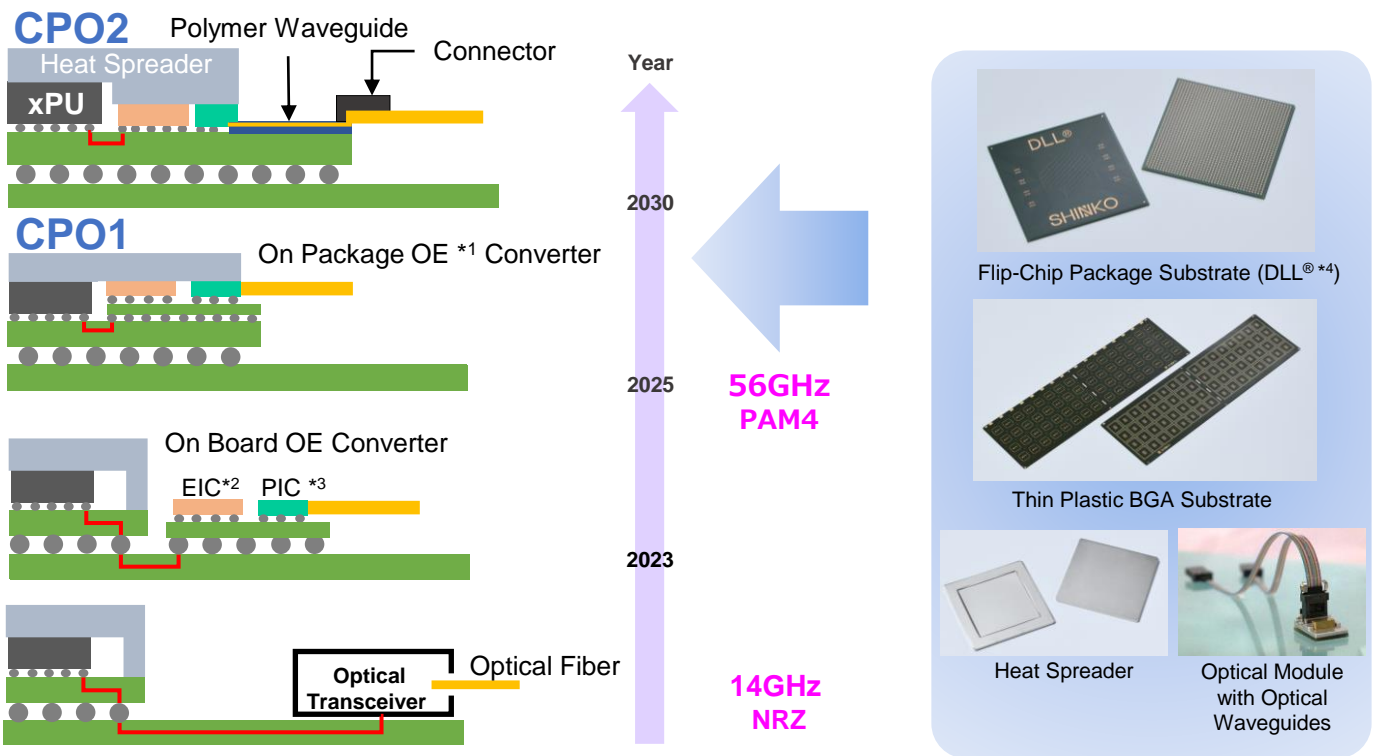
- Under development -

## Features

- Substrate with optical waveguides for high density optical transmission, based on SHINKO organic substrate technologies
- SHINKO Optical Polymer Waveguide is applicable single-mode transmission.

## Technologies

- SHINKO is developing Co-Packaged Optics (CPO) technologies for high-speed, high-bandwidth data transmission with low power consumption.



\*1 OE : Optical-Electrical

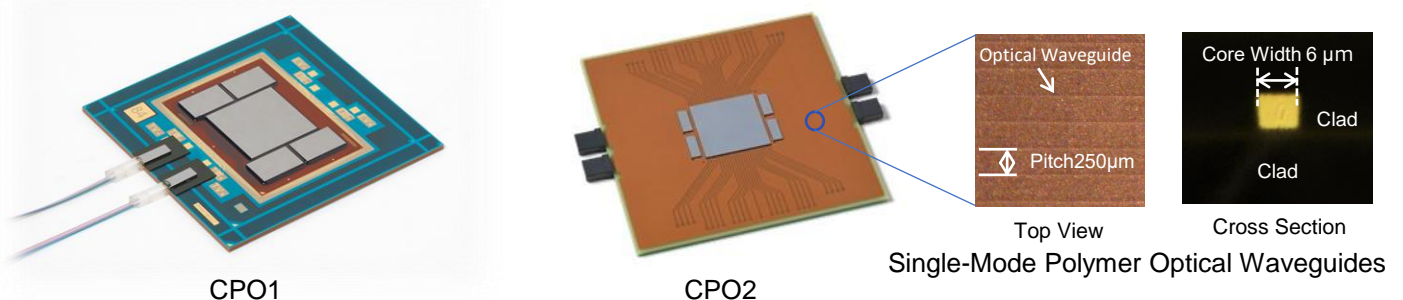
\*2 EIC : Electronic IC

\*3 PIC : Photonic IC

\*4 DLL : Direct Laser & Lamination / DLL is registered trademarks of SHINKO ELECTRIC INDUSTRIES CO., LTD.

## Structure

- CPO1 : Optical interface (photoelectric conversion device) placed at the edge of the semiconductor package
- CPO2 : Organic substrate with Single-Mode Polymer Optical Waveguides and Copper wires



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