

Fiber Coupling Scheme for Silicon Photonics Modules

In order to address this situation, we have developed FlexBeamGuideE (FBGE) as an optical interconnection device indispensable for SiPh chips. The FBGE is an optical fiber array with a 90 ...

New Scheme of Microlens Fiber Array for High Coupling Efficiency in Si-Photonics Module

In this paper, we review the current state-of-the-art of optical couplers for photonic integrated circuits, aiming to give to the reader a comprehensive and broad view of the field, ...

To meet the different coupling requirements of silicon photonics chips, Zhongshan MEISU developed a variety of small-sized and 260C resistant fiber array for customers over the world.

A new scheme of microlens 4-fiber array (M4FA) for high-coupling efficiency in Si-photonics module employing automatic packaging a silicon V-groove array and microlens fibers is ...

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To fully harness their benefits, an efficient coupling mechanism is required to successfully launch light into on-chip waveguides from fibers. This study introduces low-loss coupling strategies ...

calable and broadband coupling scheme for this platform is therefore of paramount importance. Leveraging two-photon polymerization (TPP) and a deterministic free-form micro-optics design ...

This speaks of the superior fiber to chip coupling capabilities of the free-form couplers for potential deployment in next-generation silicon photonic circuits where power consumption is of utmost ...

Efficient coupling is obtained for a wide range of device geometries which are either singly-clamped on a chip or attached to the fiber, demonstrating a promising approach for integrated ...

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